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CAST-IRON PIPE, THE METHOD OF MANUFACTURE AND ITS INSPECTION.

BY WILLIAM R. CONARD.*

[*Read March 9, 1921.*]

For the purpose of this paper it is unnecessary to attempt to review either aqueducts or pipe systems, the materials of which they were made, nor do we need to go into the early history of cast-iron pipe; that ground has all been covered before, and the thing which I judge most of those here to-day want to know about is how cast-iron pipe is made in the present day and generation, and we will therefore start as of the present.

The writer has been unable to find in any statistical form the relation which the value of the piping system in the average water works bears to the capital investment in those works, so that it was necessary to go over some records and make the calculations for oneself. The figures for 19 New England cities and towns were taken as typical examples of this section of our country, and it was found, allowing that the average pipe system runs from 6 in. to 16 in. and that the average price paid for the pipe was $30 per ton, and that the cost of the works fairly represents the capital account, that the pipe systems in these 19 cities and towns ran from 25 per cent. of the investment to as high as 65 per cent., with an average of about 45 per cent.; by which you will readily see that the value of your pipe systems is quite a large proportion of the total investment in what is one — if not the prime — of the necessities of life. The works for which the relation of pipe to capital account were listed represented gravity, pumping, surface waters, well waters, filtered and unfiltered waters.

So far as the eastern section of our country is concerned, fully 90 per cent. of the total pipe mileage is of cast iron, and therefore you will realize at once that the how and why of cast-iron pipe is a subject which you as practical water-works men should so far as possible familiarize yourselves with. The belief of the writer is that it would be money well invested for the various water departments, whether public or private,

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to send their superintendents, chief engineers, and superintendents of pipe laying to the foundries once in a while, to spend a day or two in going over the process of pipe making; and that on the other hand it would be money well spent for the foundries to send some of the heads of departments of production to the cities, or companies for whom they are making pipe, to see some of the problems they are up against. Result, a much better mutual understanding of one another's difficulties and a better spirit of "*give and take*"; for, taken as a whole, there are no fairer-minded folks than the consumer and producer of cast-iron pipe, only each cannot get the other's viewpoint unless they see for themselves.

Present-day practice for making cast-iron pipe from its natural to its finished state is: Ore in the ground; ore at the smelter or furnace; pig from the furnace; pig in the cupola or remelt furnace; molten iron in the ladle from cupola; molten iron cast from ladle to mold; cast pipe taken from mold to cleaning point; pipe after cleaning to reheating oven; pipe from reheating oven to coating tank; from coating tank to weighing point; from weighing point to hydraulic test; from test to store yard or on vehicle for shipment to customer; from store yard to vehicle and thence to consumer; placed in the ground and put in service. And there you are, back to Mother Earth again.

The buildings, machinery, fixtures, tools, and equipment for making pipe are: Main foundry building; cupola or remelting furnace; cranes for handling materials and pipe; molding machines, either hand tools or a strictly mechanical device; core-making machinery; flasks for molds; core bars for cores; chills, flasks, bottom or pouring plates; core irons for socket cores; cups and centers, for forming beads; body patterns; head patterns; former box, for forming socket cores; bead rings, for forming part of beads; former, for forming gate and shrink heads; machinery for furnishing power for handling machinery; machinery for furnishing air for cupola; ovens for molds, cores, socket cores and bead cores, and for reheating before coating; core-making machines; skids for placing pipe after casting; coating apparatus; cutting-off machines; weighing machines; testing machines; cleaning tools and machinery; transfer cars for various purposes.

The production of cast-iron pipe in this country with all foundries running their full capacity amounts to between 700 000 and 800 000 tons per annum, and of this tonnage, possibly one third are pipe made bells up and two thirds bells down; eventually it is possible they will all be cast bells down.

Now let us take a personally conducted trip through the foundry and follow a day's work of the 12-in. pipe which we have recently purchased.

After we have satisfied ourselves that the office has entered the order as per our instructions, and that they have issued the manufacturing order in accordance therewith, our first stop is at the point where the molds are made; here we find heaps of sand tempered to the proper consistency so

that it will, when packed around the pattern in the flask, remain where it is put when the pattern is withdrawn, and yet be open or porous enough to allow the gases to escape, yet not the iron; we also see a number of heavy iron flasks perforated so that gases generated by the heat of the iron, or gases in the iron itself, can escape. We next see a flask placed in position for receiving the molding sand; and the patterns, which are of the form of the pipe to be produced, are lowered in the flask. If there is a pipe-molding machine we find the flask under this machine; if they are to be rammed by hand, the ramming gang take up their positions surrounding the flask and pattern with their ramming tools; next the molding sand referred to before is shoveled in the space between flask and pattern, and the machine or the ramming gang with hand-ramming tools starts packing the sand and ramming it between the pattern and flask, care being exercised in keeping rate of packing or ramming uniform, so that the mold when completed will remain in place after the pattern is withdrawn, nor allow the pressure of the iron when being cast to force it out of position. After the pattern is withdrawn, the completed mold is placed for the blacker to apply the blacking coat, which is usually a mixture of carbon, molasses and water of proper consistency; before applying the blacking the markings which you specified to be cast on the pipe are put in the mold by pressing the sand back with metal letters and figures. Next we notice that they are making a core to be placed on the bottom plate, which will form the interior of the bell or socket, and another which will form the bead.

These cores are made by taking the machined forms previously mentioned in the list of appliances, and placing therein material which when dried will retain the same form as the equipment in which made, and be strong enough to withstand the shock of the molten iron in pouring.

In the case of the socket core this material usually consists of a strong, moist, gravelly mixture tamped in place with a ramming tool or pressed in the form by hydraulic machinery, after which it is given a coat of blacking and placed to dry.

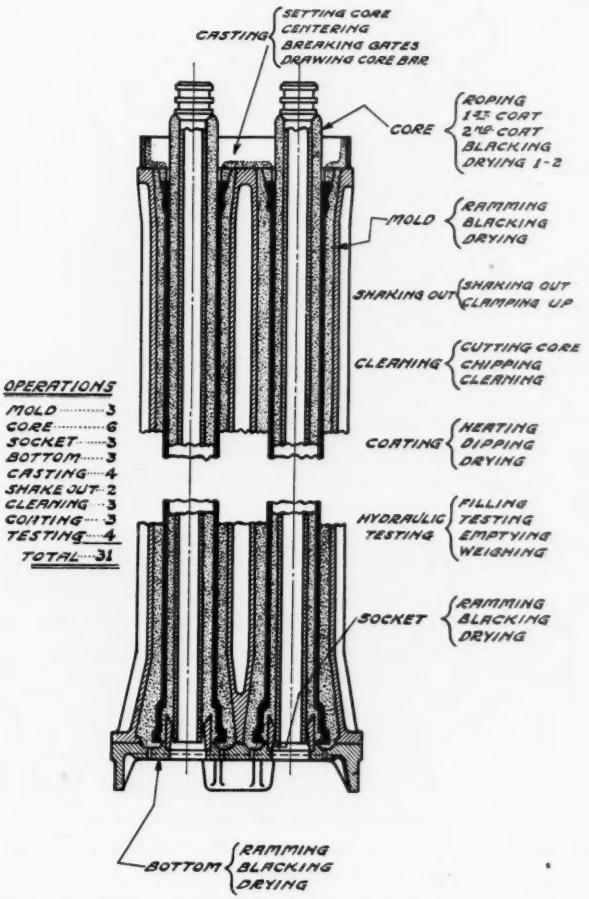
In the case of the bead core the material is usually a strong mud of similar consistency to that used for forming the main core; sometimes this core is coated with blacking but more often is not, as being made up and dried in a machined form it presents a sufficiently smooth surface, and blacking would simply be an extra refinement.

Next we see the completed mold placed at some point where heat is applied to the interior until it has had the moisture eliminated; ordinarily this is done over night, though in some foundries they use a higher temperature, and pour the pipe sooner, which is what is called "skin drying" the mold. The next step is to the part of the foundry where the cores are being made; the cores are formed on round iron bars, made hollow and perforated the same as the flasks, to provide for the escape of gases. These bars are placed on a table on bearings, where they are revolved, usually by mechanical means. There are under present practice five substances

used on these bars before the mud of the first coat is put on; these are, salt, hay or straw rope, Indiana long grass rope, paper and "skilley"; the term "skilley" being used to designate some substance that will ignite and burn easily when dry, and may be small particles of straw, grass, or wood cut fiber-fashion, like "excelsior," only shorter fibers, and mixed with a weak mud to hold the particles together, and to adhere to the core bar. After one of the above-mentioned materials is put on, a coating of coarse mud is put on, and the rough core placed in an oven to dry. After drying it is again put on the table, and the last, or finishing coat, which is a finer quality of mud, is put on, and on this finish coat is applied a coat of blacking somewhat like that applied to the molds, after which it is put in an oven and thoroughly dried.

We now return to a part of the shop where the finished and dried molds have been set preparatory to getting them ready to cast, and we find them lowering the finished and dried core into the mold, where it is centered with the mold, largely by means of an extra core, which in the case of pipe cast bells down forms part of the bead, and for pipe cast bells up forms the inner part of the bell, and in both cases acts as what is known as a "cover plate" for pouring the iron on in casting. After the cores are centered and wedged in position, a pouring box or dam of sand is built up on top of the cover plate, and everything is ready for the pipe to be cast. We now step out in the iron yard for a moment and there find workmen preparing the mix of different grades of iron and the coke, and limestone flux for putting in the cupola or remelting furnace. We follow these materials to the cupola house, and find still other workmen placing these various materials in their proper proportions in the cupolas themselves. From the cupola house we return to the foundry floor, where we find that they have tapped out of the bottom of the cupola a ladle of iron, and are ready to pour or cast the iron in the molds which we saw them getting ready a few moments ago. Do not stand too close, for, if the molten iron spills at any time during the pour, some of it may splash and at least burn some holes in your clothes. Well, that ladle of iron has all been cast into pipe, and the empty ladle is taken back to the cupola spout to be filled again for pouring another batch of molds which the workmen are busily preparing. While the iron is setting and cooling, we will watch them pulling the core bars from the batch of pipe poured previous to the ones we looked at. Here we see the necessity for some means of loosening the bar and why in making the core there is placed first a layer of some inflammable substance, for we notice considerable smoke coming up through the hollow bar, and as the crane is hooked on the bar and it is pulled out, this inflammable material, having charred and partially burned at least, enables the core bar to be pulled, and we see a column of flame follow the bar out as it is raised, which is the final combustion of the separating material. We go still further along the floor to where there is a batch of pipe from which the core bars were pulled some time ago and which have now cooled sufficiently

for them to turn out on the skids. Usually the flasks are hinged on one side and clamped on the other; they are picked up by the crane, taken to the point of turn-out, the clamps knocked off, and the pipe shaken out and rolled out on the skids for cleaning, where we now follow it, and find



SECTION VIEW COMPLETED PIPE MOLD, CORE, ETC., READY FOR CASTING, TOGETHER WITH OPERATIONS FOR PIPE FROM MOLD TO FINISHED PRODUCT.

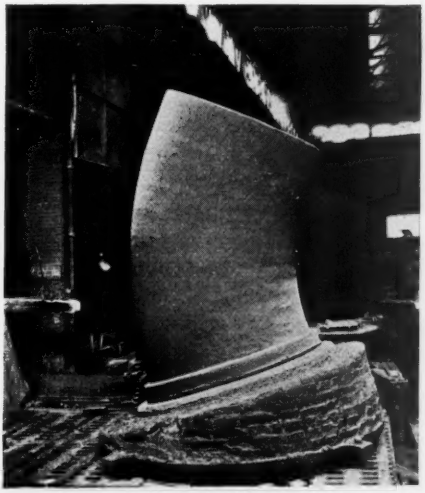
there workmen who are engaged with various tools in cutting out the core sand, knocking any loose sand adhering to the outside off, and then scraping and brushing the dust still clinging to the inner and outer surfaces off and out, chipping off the gates and risers, fins, and lumps, if any. After being cleaned and chipped, they are again placed in ovens and brought up to a temperature nearly as high as the coating material in which they are to

be dipped. After remaining in the reheating oven until hot enough, they are then brought out and lowered or dipped in the hot coating material, drained of surplus coating, and are then ready to be cooled until the coating is hard, when they are ready to be weighed and tested by hydraulic pressure. Each pipe is weighed individually, and the weight recorded on daily reports, and marked in the pipe, and also individually tested. This test is accomplished by placing the pipe in a hydraulic press, which closes on the ends of the pipe against gaskets; the water is then introduced in the pipe and the air exhausted; after the air is all out the air valve is closed and hydraulic pressure to whatever amount is specified is turned on, the pipe examined for leaks or defects, and if all is O.K., the pressure turned off, the pipe released, and it goes on down the skids for disposition either in the stock-yard or on board cars or vessel for shipment.

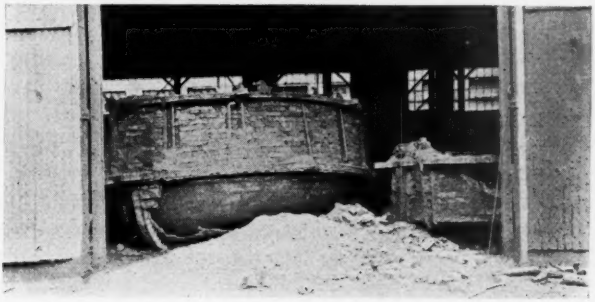
Perhaps you have realized, during this description, the multiplicity of operations that go into the making of a pipe, and yet there are a number of minor detail operations that I have not attempted to describe, for the reason that, though very essential to the production of pipe, the description would occupy more space than their importance in a general description such as this warrants.

We will now go to the shop and look over the way the special shapes known as special castings or fittings are made. Here, while the components for making are termed the same,— pattern, flasks, molds, cores, etc.,— things are carried along differently. For example, generally speaking, castings up to 12 in. or 14 in. are made by what is known as the " green sand " method, while castings larger than 12 in. or 14 in. are made usually by what is known as the " dry sand " method, and for some of the larger castings and of specials where the number of pieces to be made of a given shape is limited and the making of patterns for molding by the ordinary " dry sand " method would be expensive, they are often made up by means of skeleton patterns, or by means of sweeps, and a heavy brick casing built up instead of a flask, and this is known as the " loam " method. The modern shop of to-day uses largely metal patterns, flasks, and core boxes, which means that they can be used repeatedly and indefinitely, with all remaining in good condition; this applies to both types green or dry sand, and in part to loam work. Generally speaking, green-sand castings are made up and cast in a horizontal position, and the term " green sand " means that usually both the mold and the core are made up of a sandy loam with enough moisture to have it compact readily and maintain the shape in which it is formed even when the molten metal is cast. On the other hand, dry-sand molds are made of sand of about the same consistency as straight pipe, and both the mold and the core or cores are dried or have the moisture eliminated. Loam castings as mentioned earlier are those made with sweeps or skeleton patterns, brick casings, and the materials forming the mold and cores are heavy, wet loam made to conform to the form desired, and then baked or dried the same as " dry sand."

You have now had in a general way the methods pursued in producing and finishing pipe and fittings, and perhaps you should have some of the major details more carefully described, for example:



48-INCH ONE-EIGHTH BEND CORE LOAM, WITH MOLD IN BACKGROUND.



54-INCH QUARTER BEND IN LOAM, WITH DRAG REMOVED AFTER CASTING.

The iron, including analysis and tests.
The mold. (Body, bell, bead.)
The core.
The cleaning.
The inspection.
The coating.
The testing.

Practically each of these is a story of itself, and susceptible of interpretations widely divergent when viewed from the producing and consum-

ing angles, so that what is now said must be understood to be observations and not expressions of opinion, and reference to previously published articles is not particularly mentioned, though read and found of very considerable help, and confirming things known or observed.

The Iron.

This is a subject of itself, and might well make up a complete paper for a meeting at which there would be no other papers, and yet not be completely told. Before the day of the foundry chemist, mixing of iron for cast-iron pipe was largely a matter of guesswork, and appearance of the color and texture of the metal in the casting usually was judged by breaking off a gate after it had become cold.

The iron used to come to the foundry graded by the furnace producing, whose chemist gave the approximate components. The foundry management in turn figured that so much weight of each of the different makes and grades of pig, together with the scrap composed of fins, gates, and broken-up pipe from previous casts, should go to make the day's melt for the pipe to be poured, the size and weight of the pipe governing the proportions of the various irons. Nowadays, each manufacturer or foundry has its chemist, who analyzes the iron on hand, both pig and scrap, and orders the day's mix by weight, the same as before, but more carefully calculated, and with a more direct knowledge of how the chemical components of the day's cast will line up, for the foundry chemist not only analyzes the raw material but the finished product as well. Scrap in these later days does not mean just the fins, gates, and broken-up pipe, but is a very indefinite term, as the scrap dealer to-day gathers in anything from old stove castings, agricultural machinery, sash weights, etc., up to the very finest grade of worn-out machinery, and unless the pipe manufacturer keeps a very careful check analysis on the scrap he uses, there is likely to be a wide range of components in even a day's cast; and again the blast furnace makes to-day a wider range of grades, and careful check must be kept on the pig in order to keep the iron within reasonable limits.

For pipe from our eastern and northern foundries, cast iron which shows —

Total carbon around	3.5 per cent.
Combined carbon around	0.5 per cent.
Silicon around	1.75 per cent.
Manganese around	.40 per cent.
Phosphorus not over	0.9 per cent.
Sulphur not over	0.1 per cent.

is considered a " fair " pipe iron.

For pipe from our southern foundries the above components will vary somewhat as to their silicon, manganese, phosphorus, and sulphur, and will be considered as making good pipe.

The size and thickness of the castings also go to control the components that can be used, also to some extent, whether in the case of straight pipe they are cast bells down or bells up.

In the matter of physical qualities the transverse test bar has apparently come to be looked upon as the most reliable index of the suitability of the iron. The stresses exerted on pipe for water-works purposes, aside from the backfill and internal stress of the metal itself, appear to demand that the iron not only possess a fairly high degree of strength, but that it be flexible or resilient in order to retain its form without rupture due to variations in pressures and, to an extent, changes of temperature, when in service. Iron that will withstand a load of 2 000 lb. and at this load show a bend or deflection of 0.30 in., the bar measuring 2 in. x 1 in. x 26 in. and being placed and load applied with the 2-in. way horizontal and at the center, the supports for this beam being 24 in. apart, is considered a fair pipe iron. If the test piece is able to withstand a load greater than 2 000 lb., the increase in bend or deflection should be at a rate of 0.02 in. for every 100 lb. of increased load, variations from this indicating, where less, that the iron has a tendency to brittleness, or where greater, that the iron tends to a softer and more open grain. To be sure, a greater variation than .02 in. per 100 lb. of load is more permissible than a less, for, as stated before, flexibility or resiliency are desirable for pipe irons.

These transverse tests of the iron are not absolutely conclusive tests of the iron in the actual casting, and it must be understood are simply an index. Iron when melted and poured into castings becomes a decidedly complex substance, and the only way to arrive at anywhere near a conclusion of the physical properties of individual castings would be to obtain a test piece from every pipe, which would be impractical.

The Mold.

The term "mold" is used to designate the outer form of the pipe or special casting. This is obtained by the use of patterns made up of metal or wood that have been made to the form and of the dimensions desired. In some cases of loam work the forms are obtained by skeleton patterns and the form worked out by hand from the skeleton, or else by placing an outline of the shape desired on a pivot or pole and sweeping up the form desired by rotating the outline around its center pivot or pole.

In the making of molds there are quite a variety of methods employed, from the strictly hand method to various mechanical devices, all designed to obtain about the same result. The strictly hand method means the placing of all of the materials that go to make the mold by hand or manual labor, and naturally they are the slower methods, and while good do not always entail the best results. Of the mechanical methods for straight pipe, there are four that stand out most prominently, and I will only men-

tion them by name, as to describe in detail would take too long; they are the " pull or draw " pattern method; the " rotating and drawing " pattern method; the " mechanical tamping " method; and the " jar rammer " method. For the special castings there is practically but one type of strictly mechanical molding, and that is by " jar ramming," though there are methods which are a combination of hand and machine molding, where the molding sand is placed by hand methods, and the withdrawing of the pattern is done mechanically.

The Core.

The term core is used generally to designate that part of the form for making cast-iron shapes which forms the interior of the casting, and for pipe and special castings gives shape to the barrel, sockets, and — in the case of branches — the arm, and on spigot pieces and, in some cases, flanges, the bead of the spigot and one of the flanges is formed with a core. Cores for straight pipe are made up on an arbor or bar of the dimensions necessary, and for the sockets and beads and flanges in metal forms machine finished to shape and dimensions, and for some shapes of special castings the same methods are pursued, while in others, boxes, sometimes metal and sometimes wood, are machined or cut to the desired form and dimensions; and in the case of loam castings the cores are ofttimes swept up with an outline of the shape desired, revolving from a center pivot or pole.

The Drying.

In the case of dry-sand or loam castings, and with cores made up of wet material, it is necessary to eliminate this moisture before pouring the iron, in order to obtain a sound casting and one true to form, for the reasons that moisture and melted iron are violently opposed to one another; the molten iron coming in contact with water forms strong gases and also chills or sets the iron too rapidly, preventing its becoming a homogeneous mass when cooling or cold.

The customary method of drying is to place the mold or core where there is high atmospheric temperatures, usually an oven where the heat vaporizes the moisture and it is carried off by means of draught chimneys or by mechanically induced or forced draught.

The Pouring.

The work of casting molten iron into prepared forms requires considerable skill, and should only be done by those who have had experience and whose knowledge of the forms as prepared satisfies them that they are in proper condition for pouring, for even with this knowledge accidents occur, either a running out of the metal from the confines of the form it is going into or from a wet mold or core, causing the generation of gases and a type of explosion. In the absence of the use of pyrometers (which are

seldom used), the color and fluid condition of the metal in the ladle after it is run from the cupola tell the man of experience when the iron is right for pouring, and he acts accordingly.

It is extremely difficult to fully describe the technique of pouring iron, and I will not attempt it.

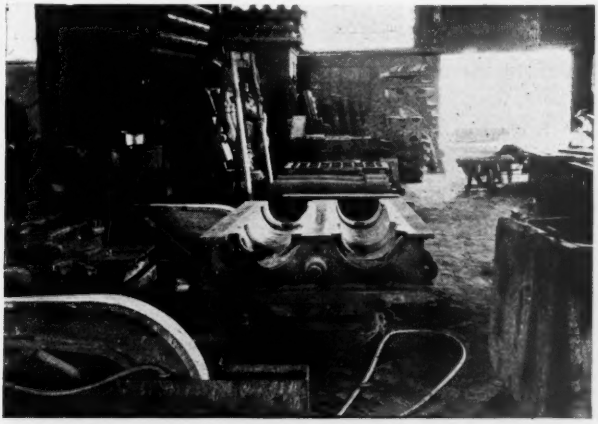
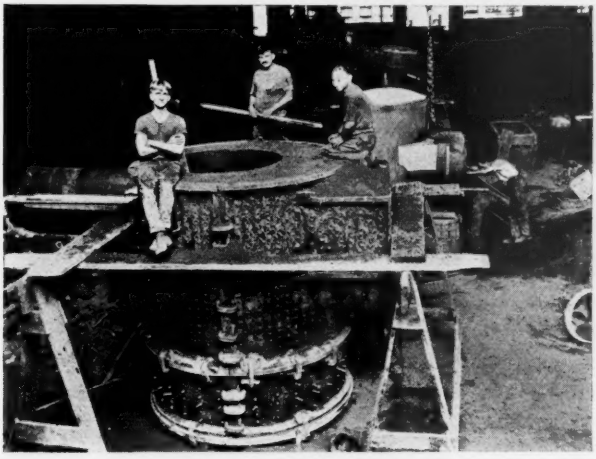


FIG. 2. REDUCERS IN FLASK. GREEN SAND MADE ON JAR RAMMER.

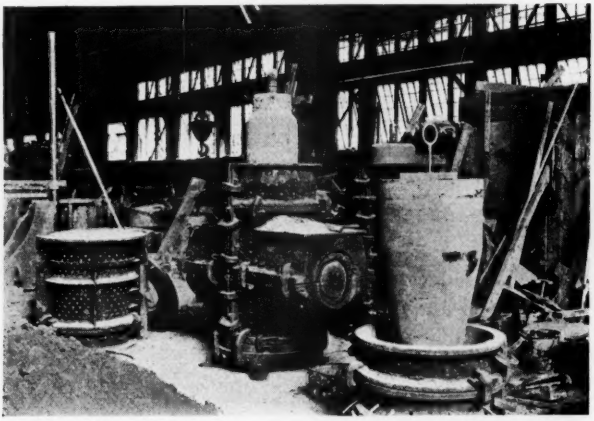


REDUCER. DRY SAND.

THE CLEANING.

It is hard to get — and it would also be very expensive to use in the molds and on the cores of pipe and many fittings — a substance that would work more efficiently than the present-day blacking, which, as

explained, is a made-up mixture of fine-ground coal dust or carbon, molasses, and water. Yet the blacking as used, while it usually prevents the melted iron as poured fusing with the material of the mold and core, there are times when the iron burns through the coat of blacking, causing the sand to stick and entailing much labor and time to clean it off or out of the pipe or casting. Then again because the molds and cores at joints are not an absolute fit there are bound to be fins, and there are always the gates, and risers or projections of iron left on a casting where an opening has been left to allow the escape of gases and for small particles to float out; and all of these, with any sand sticking on, must be cleaned from the casting, so that when this is done the result is practically a finished product. There are various tools used for the cleaning and chipping, such as core-cutting tools, scraping irons, wire brushes, hammers, chisels, dog chisels, picks, etc. Each of these serves its purpose, and with the proper tools a great many pipe and castings can be cared for in a day.



16-INCH BRANCH AND REDUCER IN FOREGROUND. DRY SAND.

THE COATING.

Here is another phase of pipe production, which is as worrisome as "the iron," and at times more so, inasmuch as there does not seem to be a great deal of exact scientific knowledge concerning protective coatings for cast iron. The present specifications for coating are very largely patterned after the Dr. Angus Smith process, which was for a coal tar thinned with linseed oil and the pipe and coating heated to a given temperature, and the pipe dipped at that temperature; present specifications have substituted what is commercially known as "dead oil" for the linseed oil. This is a thin solvent oil of naphtha, and apparently its function is to dissolve the solids in the tar and act as a carrier for helping the tar to soak in the pores of the iron in coating.

When the Smith process was devised, coal tar was coal tar, with many of the natural mineral oils remaining, whereas the tar of to-day may be coal tar or coal and water gas tar mixed, and in a few instances wholly water gas tar, and while to the eye it may all appear very similar, it is none of it like the tar as Smith knew it, for most of the mineral oils have been taken out as by-products. The mineral oils in the old tars materially aided in preserving the coating and the pipe, whereas to-day the tars the foundries are able to get are not much more than a temporary preservative. The older tar, containing as it did the mineral oils, the volume of iron in the pipe heated to a certain temperature and therefore having a certain number of heat units to throw off before the coat set, did not make so much difference, whereas to-day the smaller and lighter classes of pipe, having less heat units to throw off than the heavier classes, the coating keeps better, and the heavier pipe, if heated to as high a temperature as the lighter ones, take so much longer in cooling, that they appear to burn the life out of the tar, which looks good for awhile and then seems to disintegrate.

For all-around purposes there doesn't seem to be anything better for coating cast-iron pipe than tar, yet it would appear that it is going to be necessary to find some alloy to mix with the tar that will put in some of the body and preserving qualities that the old-fashioned tars had.

As an observation it would appear that it might be money well expended to make a fairly extended research to determine the effects on the metal and to some extent the water that the various elements of tar produces, and to have the foundries try analyzing every batch of tar used, and discarding that which has elements that are injurious in sufficient amount to make them harmful, and to try and find some thing or things that will give body and stability to the coating and to prevent the forming of tubercles on the interior of the pipe. In other words, if a coating can be found which while remaining more or less plastic and having sufficient body to make a wearing surface and yet which has no minute air pores reaching through from the metal to the outer surface of the coating,— so minute that they are not discernible, yet they are there,— then there will no tubercles form, for they will not form on the good coating, but hunt for the porous place and enter and fasten on the metal and then start to grow.

The Testing.

Testing the pipe at the foundry is intended to prove three things:

First. That it is within the calculated factor of safety.

Second. That internal stresses in the iron have not been set up in such a way that the hydraulic pressure on the line in service will cause failure.

Third. That there are no gas, dirt, or shrinkage holes; that the pipe is not cracked, and that it is not porous.

As previously stated, the method of testing pipe is to clamp it in a press, fill it with water, at the same time exhausting the air, and then to turn on a higher pressure for actually proving. Foundries can cast and turn out in a day from 400 to 1 000 pipe, the day varying from eight to ten hours.

The plant turning out 400 pipe having possibly 2 proving presses and the plant turning out 1 000 probably 4 presses, the pipe will vary from 4 in. to as large as 60 in. To fill and get the test pressure on a 4-in. pipe takes perhaps half a minute, while to fill and get the test pressure on a 60-in. pipe takes about seven minutes. In testing, the plant that makes 400 pipe will have to prove at the rate of 50 pipe an hour for eight hours, or 40 pipe per hour for ten hours, to get a complete day's work through the test, or 25 and 20 using 2 presses, while the foundry making 1 000 pipe has to prove at the rate of 125 pipe per hour for eight hours, or 100 per hour for ten hours, or 32 and 25 pipe for 4 presses. Except for the larger sizes, say 36 in. and up, the rate of output of pipe is such that it is impossible to allow very much time per pipe for testing, there not being much more than time to fill, exhaust the air, turn on the pressure, and after a very hasty examination pass the pipe down.

Pipe specifications require that the pipe be subjected to a hydrostatic test pressure. If my understanding of the term *hydrostatic test is correct, it means "hydraulic pressure held stationary"* sufficiently long to test the object being subjected to pressure, which in the present case is pipe. Now, the foundries do not object to the pressure being held on their pipe, but they have so many pipe to put through (and unfortunately in some of the foundries the facilities for testing have not kept pace with the facilities for manufacturing pipe), with the result that while all the pipe are subjected to test, the period of static pressure is so short that it is a question whether some of the purposes for which the pipe is tested are attained.

The Inspection.

The inspection of cast-iron pipe and fittings, I believe, requires knowledge of a more general character than almost any other material, for it involves knowledge of molding, pattern making, machine-shop practice, chemistry, the cause and effect of the things that happen in the manufacture, and the engineering viewpoint of the materials when put to use, and in addition to all, the inspector should be a man who can and will exercise good sense and sound judgment. Many of the men who take up the work of inspectors are recruited from among the more intelligent of those who have been connected with foundries in the production end, and have acquired thereby knowledge of several of the elements mentioned earlier of molding, pattern making, etc. Some of them go into inspection from the engineering side, acquiring their knowledge of the other matters necessary through study and observation. The actual work of inspection

as generally carried out consists in taking the pipe after being cast and turned out on the skids and following it through the process of cleaning, coating, weighing, and hydrostatic test, to the store yard for shipment. After they are cleaned and before they are coated, each pipe is looked over carefully for defects visible to the eye; they are measured, and gaged for thickness, concentricity, internal, and external diameters at each end, and in the case of fittings or special castings the dimensions of lengths, angles, etc., should be checked over. If they come within the specified limits they are then passed on to the coating and weighing process, and, in the case of straight pipe, to the hydrostatic test; it is not customary unless specifically stated in the contract to subject fittings and specials to hydraulic test, though it would appear that, generally speaking, special shapes due to their shape are not as strong as straight pipe, and, in order to demonstrate that they are within the safety factor, should be tested.

The inspector during the examination determines also whether the iron appears to be approximately as specified, and also witnesses the physical tests of the iron not only at the press but also the breaking of the test bars. He also keeps a record or field book in which notes are made of pipes which in his judgment are unsuitable for the purchaser for whom he is inspecting, and these notes together with the accepted pipes are transmitted in a report to the purchaser. The keeping of these records and reporting them correctly are an important part of his duties.

Of the pipe which are accepted usually the number and the weight is the only notation, and no comment is made, but of those considered unsuitable the cause of rejection is stated. There are numerous conditions which are considered as rendering a pipe and casting unsuitable, some of them of the iron, some of the exterior, some of the interior, and in the case of so-called "uneven," "eccentric," or "lopsided" pipe or casting, of both. All told, the causes for which pipe have been discarded would run as high as seventy-odd, though defects that render pipe or castings actually dangerous are considerably less. Each day we see recorded in the papers accidents of one kind or another, though very seldom is anything said of the vast majority of those who move in safety from point to point or go about their day-to-day lives with nothing particular happening; so it is with pipe and castings, it is the defects that are mentioned, it being found unnecessary to say anything about those which are turned out to take their place and perform their appointed task. So with the inspector,— the pipe he accepts are taken as a matter of course without comment, but the casting which in his judgment is unsuitable is a subject for some comment on both sides, producer and consumer. The broad-minded inspector would rather accept every casting submitted for his examination, and the broad-minded producer doesn't wish him to accept that which his judgment bids him not to; and the purchaser employs him because he wants a first-class article, and has confidence in his integrity to see that he gets it.

For the illustrations which you have seen on the screen, and most, if not all, of those which will appear with the article when printed, the Association and the author are indebted to the United States Cast-Iron Pipe and Foundry Company.

Discussion.

Mr. Henry A. Symonds.* Mr. President, I should like to inquire if Mr. Conard can give us any information on the centrifugal method of manufacturing pipe; if that has at the present time any standing, and if there are any prospects of realizing some of the good things which have been claimed for it.

Mr. Conard. The centrifugal method, as I understand it, was started quite a number of years ago,— I think in England,— and was not successful. Afterwards, I understand, a Brazilian tried out the method and had more or less success, and after trying it out in his own country has applied for and obtained patents in some of the other countries, and it has been tried out to some extent, I believe, in the United States; but the places that tried it have discontinued it, as they apparently have not worked it out to a successful issue. I believe that they are giving it a trial in Canada. Just how much success they are having with it I am unable to say, but they seem to keep on trying. If they could get it to the point of actual practicability it would produce pipe of uniform thickness and very close texture. Some of the pieces that I have seen of pipe produced in that way indicate a very strong, very close-grained iron, and if they could produce them successfully they would be able to produce pipe of equal strength with those made under present methods of much thinner walls.

Mr. Frank A. Barbour. Mr. President, we have here with us this afternoon Mr. Walter Wood, and I always believe in giving the producer a chance to answer any of these critics in manufacturing processes. I would suggest that you give Mr. Wood a chance to say a word.

The President. I thought it was understood, Mr. Barbour, that the floor was open to any one present. It certainly is. We should be very glad to hear from Mr. Wood, or any other of the manufacturers.

Mr. Walter Wood.† Gentlemen, there are only, I believe, eight different parties manufacturing cast-iron pipe in the United States, from the Pacific to the Atlantic, and Mr. Conard has so kindly instructed the 150 people who are here that we will probably have that number very much increased. To that extent I hope his paper will bear fruit, so that the country will be dotted all over with cast-iron pipe manufacturers.

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* Consulting Engineer, Boston, Mass.
† Of R. D. Wood & Co., Philadelphia, Pa.

Mr. Conard has given a very interesting and a very correct description of the manufacture. There is one point that I would have been glad if he had mentioned, and that is in regard to the bar which is used in the breaking. The dimensions that are taken for that bar are chosen because there is a regular coefficient between the breaking of that bar and the tensile strength. A bar that is broken between 24-in. centers, 2 by 1, broken on a flat, is 10 per cent. of the tensile strain of the iron. It is the easiest, quickest, and — unless you go to the elaborate preparation of the direct pulling — the most convenient way of reaching the tensile strength of the iron. As regards centrifugal pipe, Mr. Conard gave you as full an explanation of its status as any one can at the present moment. The first centrifugal pipe made I saw between thirty-five and forty years ago. My impression of the results of centrifugal casting of the pipe is that the requirements for thickness and weight, according to the present specifications, are so narrow that it would be very difficult to make a pipe that would come within those variations. To that extent the centrifugal molding, even if the cost was not considered, would be very difficult to secure. As regards its cost, the expense of molding by sand,— without having any cost figures except those of the present mode of casting, I should think it would be markedly less than the centrifugal method. The upkeep of the machinery and other details of manufacture, I take it, would make it impossible to compete by the centrifugal method with the plain, old-fashioned sand method which, after all, is very simple. The sand method has its troubles, but I think the centrifugally-cast pipe will be much more liable to defects and need Mr. Conard's careful inspection before it is sent out to the users.

My experience with cast-iron pipe commenced sixty-seven years ago, and I think I can handle most questions relating to it.

Mr. Barbour. I should like to ask one question of Mr. Wood: Why is it that present rejections run so high in some of the foundries as compared with others? Is it in the iron, the quality of the iron used, or the methods of manufacture?

Mr. Wood. That results from a number of causes. The percentage of rejections in the past six or eight years has been abnormally high. The old set of men have been drawn away from their work, and getting in all new men has been a very, very great labor. I think the trouble has been due to the crude and unskillful workmen that have been forced upon the manufacturers.

The percentages of rejections also are very largely of two kinds,— one which makes the casting unfit for the use for which it is intended; the other is from the technical requirements of the specifications, which interfere with the choice of the castings for practical purposes. The requirements of the specifications are so narrow that pipe which will answer for use in one place will cause rejection in another. And the difficulty of getting good workmen and good metal, and, above all, getting good coke,

has thrown a very great burden upon the manufacturers, the last six or eight years.

Mr. Conard. Speaking of the rejections; as Mr. Wood says, they are from two causes,— the putting together of the materials that go to make up the mold and the core,— which is the labor end,— and the iron. Of course the iron is a matter of controlling the material which you are putting into the mold. On the labor, as I view it, the defects of human nature, the defects of workmanship, are the lack of skill on the part of the workmen, and the difficulties of controlling the human factor, which, as Mr. Wood says, are at the present time very great, and will have to be, in my judgment, to a greater extent than up to the present, offset by the creation of mechanical devices which will perform many of the operations of making pipe which are now performed by hand.

Mr. Frank A. McInnis. I had hoped that with this stage set as it is to-day, with Mr. Conard here as an inspector, and Mr. Wood with his sixty-seven years of experience,— which is enough for us,— that all of our members might take advantage of the occasion, and not accuse, as I have often heard, that the talking was all done by two or three people. Now, here is surely a chance, if there ever was. All of these men here use pipe. Let them tell what their troubles are, ask what they want to know. There never was a better chance.

Mr. Percy R. Sanders. One pipe manufacturer told me the reason that he had put a little higher price on his pipe than some of the others was because they cast their pipe spigot up and then put it in a lathe and cut off every length. I should like to know if that is a custom that is going to come into practice, and if it is a good custom.

Mr. Wood. The question of cutting off the end of the pipe is largely a question of the character of metal that is used, the method of manufacture, handling and cost. The English practice is to cut practically every pipe. The European practice is not to cut pipe. The American practice has been, up to date, not to cut their pipe, but there is a tendency now to do so, as it has been rather forced by the character of the workmen that we have had to deal with in the past five years. Cutting the pipe adds about 3 per cent. to the cost, because if you take off from 144 in., 4 in., you can readily calculate the amount of loss that is occasioned. But every pipe which has a bad bead, which is the place where the defects occur, should be cut.

Mr. Samuel E. Killam. Mr. Wood probably realizes as much as the rest of us, especially those who deal in the larger pipe, that the quality of the coating that we have received in the last few years has gradually deteriorated. From his sixty-seven years of experience, does he think that it is going to continue this way, or may we expect something better in the next few years than we are now getting in coating? Have we got to suffer on account of the by-products in the tar?

MR. WOOD. The coating question is an exceedingly interesting one. The expense of the coating as now applied is almost infinitesimal. The cost of the coating per ton of pipe runs into but a few cents. The character of the coating in the past probably was a little better than it has been in the last few years, because of the character of the tar that we have been getting. I think when the tar that we are now using is bettered by more oil in the coating, it will probably overcome very much the difficulties which we have all more or less appreciated.

I should like to have Mr. Conard express his thought upon that question.

MR. CONARD. *Mr. President and Mr. Wood,*— Of course what I said in the paper was simply an observation, but it really expresses my thought in the matter, in that I believe it would be money well expended, both by the consumer and the producer of pipe, if some more careful research work were done on the question of coatings than anybody has attempted in the, at least, recent past. The older tars, as they were used, retained and held the mineral oils. The preservative oils were not distilled out in the old days as they are at the present time, and it means putting back into the present-day tar, if we are to continue to use that,— and there does not appear to be anything better at the present time,— something that will restore to that tar its lasting quality and yet not be so heavy or thicken up the coating to such an extent that it acts just the reverse of what we desire. Just what those oils should be, just what that mixture should be that we should put back into the tar, is the crux of the situation. There has been no research work gone through with to tell us what should be put back there, what the oil or oils should be that should go back in the tar to restore it to the condition to make it as good a coating as it one day was.

And then the question of temperature should be gone into. The temperature should, in my judgment, be varied for varying sizes and thicknesses of pipe, because the number of heat units that are thrown off before the pipe becomes cold, or cools, and the coating becomes hard, has much to do with it. If the body of the pipe is so heavy, and the heat units are so many that it drives the life out of the coating, you might almost as well not have any coating at all.

MR. MOSTELLER.* We believe in and do cast all pipe bell end down with a riser above the spigot end at all of our foundries except our Scottdale plant, and cut off the riser from above the 12-in. length of pipe. I am told by our production men that since this practice has come into general use, losses have been very much reduced; in fact, on large pipe that there is practically no loss.

The practice of casting pipe with the riser varying in height and thickness with the thickness and diameter of the pipe, such riser afterwards being cut off in a lathe, insures absolutely sound metal in the bead of the pipe, and it is almost axiomatic that if you have good sound metal in the

* Of U. S. Cast-Iron Pipe and Foundry Co.

bead of a vertically cast pipe it means sound metal throughout the casting, in that the iron in setting draws down from the bead, and with a riser which is considerably thicker than the wall of the pipe and with a considerable height to it, the action is like that of pouring lead, for as the iron in the body of the pipe sets, there is constantly a head of fluid metal above to fill up any slight draws or voids which might be formed.

Another very important feature is the fact that it does away with any spongy beads in themselves. In the old manner of casting, the bead (except for the few points at which it was gated) came up against a cake which chilled the iron. This frequently held in the spigot gases which formed blowholes and gave a spongy spigot, although the casting skin over the end of the spigot would not show this. The result was the spigot end was always given very careful scrutiny and was severely attacked by hammers to see if any of these voids existed. Naturally this excessive picking was not a good thing for the appearance of the pipe, nor did it increase its usefulness, and frequently did not go deep enough to discover the defect searched for. In casting pipe with a riser, we accomplish also the purpose of bringing up any dirt or sand which may be loosened in the mold in the pouring of the iron. This naturally floats to the surface and comes up as the pipe is poured and is carried off in the riser. Another thing that we get away from is the breaking off of the runner gates. Frequently in knocking off the gates the spigot end would be broken into slightly, sometimes so greatly as to cause the loss of the pipe. The lathes used in doing this work are specially constructed. The cutting off of the riser is a slow process. The handling of the pipe in addition to the cutting adds expense to the cost of making every piece of pipe. This manner of casting entails considerable expense, which we have assumed, believing that it is a large step forward, insuring the purchaser absolutely sound material. We hope by making pipe in this manner to have it come into vogue and that purchasers will demand pipe made as we cast ours. This will insure a cylindrical pipe of homogeneous metal, clean and free from dirt and dross.

This little piece of iron which I have here is a section cut from the riser of an 8-in. pipe. I had this cut in the machine shop, to see the contents of the iron and dirt which had risen into the riser, partly from curiosity. I found from this piece and other risers cut up that it was very spongy and full of holes, — " buggy," as the foundrymen call it. This shows clearly that there is dirt and dross in all iron which has been forced to the top and out of the pipe. I believe that the piece of pipe from which this riser came was theoretically and practically a clean pipe. This operation increases our cost on each pipe, and, as Mr. Conard has pointed out, there are 31 major operations in making a piece of pipe. There are many other minor details in manufacture. All of this goes to show that there is a great deal of hand labor in making pipe. Very few men, outside of the ones who have gone into modern foundries, realize that pipe requires so much care and so much labor.

The United States Cast-Iron Pipe and Foundry Company is not trying to increase the cost of pipe, but these additional operations, to the ones Mr. Conard mentioned, will show you why our cost per ton has been increased. We do not attempt to get this additional cost of, say, $1.75 to $2.25 per ton, or whatever it may cost us to make pipe over the old method, for you know that in general competition we cannot get an additional price, nor do we try to get it. I have had buyers say to me recently, and I believe it is true, for they have been practical men and mechanical engineers, that if they could get pipe made as we make it, showing a clean barrel and a perfect spigot, they would be willing to pay a dollar per ton extra. We are not talking for higher prices, and this explanation is made in answer to Mr. Sanders's question.

(*To Mr. Sanders.*) The statement you referred to was evidently made by the speaker, and if you will recall he said that the cost was there, but we do not attempt to get it, and that we are not trying to advance the selling price of pipe.

Mr. McInnis. How far is the cost offset by fewer rejections, a lesser percentage of rejections?

Mr. Mosteller. My understanding in answer to Mr. McInnis's question is that our losses have been reduced to such an extent that in normal times, when there is large tonnage in the shops, we can practically write off that expense. In other words, where we use to lose a certain percentage of pipe on account of bad, rough spigot ends, we now save these pipe by the methods of manufacture given above. The old theory was, that bad spigots made no difference because they went into the bell and were calked with lead. Practical pipe-layers and engineers who are studying all improvements in pipe-making say that they now feel safe when using pipe made by this method.

A prominent gas engineer told me, some time ago, that these clean spigots had reduced their leakage to almost nothing. With a normal tonnage in the foundry I would say that we could almost write off the expense of casting pipe with the riser and cutting it off in the foundry, for the reason that we gain many pipe which we formerly lost, which reduces our costs and our customers' inspection charges.

Mr. Leonard Metcalf. It has occurred to me that it might well be possible for our cast-iron pipe committee to interest the National Research Council on this question of the coating of the pipe, and to get it to undertake a series of tests along the line suggested by Mr. Conard.

Mr. Henry V. Macksey. Mr. President, it seems to me on that line that Mr. Conard is passing the buck very easily. He said the producers and the consumers should take this matter up. But to-day we have testing laboratories and big engineering outfits to study and advise, not only that the work is carried out according to specifications but to advise as to the specifications. I believe this investigation belongs to them, and that is what they are paid for.

MR. EDWARD D. ELDREDGE. This subject of coating is certainly a very important one. It would seem that under the present conditions the benefits are only of a temporary nature as far as the interior is concerned. It would be interesting to know if any experiments have been made, successfully, in lining cast-iron pipe with cement. The reduction in area would not be nearly as serious an item as the reduction which now occurs through tuberculation.

MR. CONARD. I do not think there has been very much done, if anything, on that, in the way of experiment. That might be something for either the Pipe Specifications Committee, or our friends the manufacturers, or our testing laboratories to go into.

Mr. Macksey says I "passed the buck." I do not think I did. Who is going to pay the bill? It is admitted that the research work ought to be done, but who is going to pay the bill for it? My belief is it ought to be a combination. The manufacturer is in the business of producing cast-iron pipe, and he is in the business of producing cast-iron pipe in accordance with the specifications provided by the consumer, and those specifications in part say as to what the coating shall be and how it shall be applied, etc. So far as the manufacturers are able to get the materials they comply with those specifications, and they put a coating on that is to all intents and purposes in accord with those specifications. And yet I think that the manufacturers will admit that they are not altogether satisfied with the result, and most assuredly the consumer is not satisfied. Now, should not the producer and the consumer go into a careful and thorough research? And let me tell you, if you are not going to go into it thoroughly and do it as thoroughly as it should be done, there is no use in doing it at all; but if you do go into it as thoroughly as you should, it is going to cost something. And the consumers should be prepared to pay their proportion of the bill, and for the satisfaction that the producers would have in giving the goods to the consumer as a result of some such work, they ought to be willing to pay some portion of the bill also.

MR. METCALF. I made the suggestion that I did, Mr. President, for the very reasons stated by these various gentlemen,— because the cost must ultimately be borne by the consumer. It will be burdensome if undertaken by any one consumer; it will be burdensome if undertaken by any one manufacturer. The work cannot be done unless it is done on a large scale, which will cost a lot of money. It takes money to organize and to make the test. We have the organization in the National Research Council. It has done just this sort of thing, I understand, through various agencies, getting collections from those who were interested and who were willing to contribute to an investigation from the results of which everybody would benefit. It was for that reason that I suggested that organization. I feel quite confident that it might be interested.

MR. BARBOUR. Mr. President, in connection with the subject of coating, I think we have missed one point, namely, that this is the age of

production. All these foundries want a mass product,— to rush it through. In the old days of Angus Smith the specifications required that the pipe should be put into the vat and left there until it came to the temperature of the dip; that would be too slow for present ideas of output. It is practically impossible to get a non-cut back tar to-day, but, even if it were possible, I question very much if we would get the result that they got in the old days when they took more time.

By excessive temperature of the pipe when dipped we probably volatilize or drive off certain constituents in the coating. I had an experience in that connection. In a 36-in. steel line installed at Akron, Ohio, some years ago, which was lock bar pipe made at Paterson, N. J., we started out to use tar, and we did get non-cut back tar after a great deal of effort. We found that the coating of tar on one side of the pipe would be perfectly satisfactory, and on the other side it would be chippy and brittle. The pipes were heated in horizontal ovens, and to determine whether the question of temperature was not the controlling factor I had about a dozen alloy buttons made,— little pills of varying alloys that would melt at differences of 25 degrees of temperature. We found by putting these alloy buttons on the pipes that, whereas one side of the pipe might be only 300 degrees, on the other side it would be as high as 700 degrees. And we followed that through and found that the high temperature side of the pipe was where the coating was brittle, and the lowest temperature side where the coating was soft.

RAINFALL IN NEW ENGLAND.*

By X. H. Goodnough.†

In a paper on Rainfall in New England, published in the JOURNAL of the Association for September, 1915, the writer presented copies of the rainfall records in New England which were then found available, including observations at stations in adjacent parts of New York and Canada up to the end of the year 1913. In the present paper, in accordance with the desire of the Association to bring up to date the various records of rainfall, stream flow and yields of watersheds as presented in previous papers and reports, the tables of rainfall observations in New England and its immediate neighborhood since 1913 have been collected and are presented herewith up to the end of the year 1920.

The plan followed in the previous paper has been continued in presenting the copies of the rainfall records since 1913, and the records are presented by states in the following order: Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut. Observations in adjacent portions of New York and Canada are appended in the order named. The stations are again arranged alphabetically by towns, except in a few cases, where the name of the station is better known in connection with rainfall observations than the municipality in which it is situated, as, for example, Bar Harbor (Maine), Chestnut Hill (Mass.), Lake Cochituate (Mass.), etc.

In printing the names of observers the same plan has been followed as in the previous paper. Observations made by the U. S. Weather Bureau, or reported regularly to that office, are presented without designating the observers. In other cases the name of the public department or corporation, if known, is printed at the head of the table.

The tables have been rechecked, and in some cases it has been possible, since the previous records were published, to compare the published tables with the original records. These comparisons have shown very few errors in the previous tables, no errors of importance being found excepting in the tables of rainfall observations at Monson and Waltham (Water Works), Mass. These tables, upon comparison with original records which have since become available, have been found to contain numerous errors, and are accordingly republished in the present paper and should be substituted for the tables on pages 363 and 382 of the JOURNAL for September, 1915.

* In the preparation of this paper the writer has had the assistance of Mr. George V. White, of the Engineering Division of the Department of Public Health, in the collection of the data and much of the information relating thereto, and clerical assistance from other members of the office force, particularly Miss Penney and Miss Drake.

† Chief Engineer, Mass. Department of Public Health.

Since about the time of the presentation of the previous paper to the society, some 80 new rainfall observation stations have been established within the limits of New England, and a few have been discontinued. Of the new stations, 48 are in Massachusetts, 12 in Vermont, and 5 or 6 in each of the other states, excepting Maine, which, while its area is the largest of all, contains only 2 of the new stations.

It has been possible also to add a few long records of rainfall observations which were overlooked in the publication of the previous paper or with the existence of which the writer was not acquainted. Among these in Massachusetts are a rainfall record of about 20 years at North Billerica; a record covering 25 years at Boylston, near the Wachusett Reservoir; a record from 1878 to 1885 at Fresh Pond, Cambridge; a record at Woods Hole, in Falmouth, from 1873 to 1900, with a gap of 5 years from 1882 to 1886 inclusive; a record at the Marlborough Water Works, from 1900 to 1920 inclusive, and a record at Sharon, from 1903 to 1920 inclusive. In Rhode Island, a record at the Clyde Print Works, at Hope, beginning in 1889, is included; also the U. S. Weather Bureau station at Providence, beginning in 1905. In Hartford, Connecticut, a U. S. Weather Bureau record for 22 years has been added to the tables.

In the course of the studies of rainfall observations it has been practicable to inspect a large number of rain gages in various parts of New England, and also to compare various types of gages placed at the same station. It is not practicable to present an account of these observations within the limits assigned to this paper. It may be said, however, that so far as the writer's investigations have shown, the standard 8-in. rain gage, properly cared for, appears to furnish the most reliable observations of precipitation, under various conditions, of any of the gages in common use. Measuring snowfall upon any prepared area is difficult in any case, and in many storms impracticable, especially in southern and eastern New England, where rain and snow are often mingled in the same storm. This difficulty was pointed out clearly by the Rev. Manasseh Cutler, who kept rainfall observations in Ipswich in 1782, and whose remarks relative to the matter were quoted in the previous paper on this subject.

It is also difficult to measure the snowfall accurately in a rain gage, both on account of the danger that in some exposures some of the snow is likely to be blown out of the gage, while, on the other hand, at times of high wind the precipitated dry snow is often blown into the air, and unless care is taken the reading of the depth of snow collected in the rain gage may be enhanced thereby.

Variations from these causes appear to be less likely to occur with an 8-in. standard gage than with gages of greater diameter in proportion to the depth; but in setting up a gage it is important to select a location where variations are unlikely to be caused by snow being carried either into or out of the gage by the wind. The top of a standard gage, when set up in the stand usually provided for it, is commonly elevated about 3.0 ft.

above the ground, but this elevation is inadequate to prevent the snow from covering the gage in some parts of New England, and, in fact, in most parts in years of very deep snow. The danger from this cause can usually be avoided by raising or lowering the gage from time to time as the variations in the depth of snow make changes necessary.

While the variations between the standard and other gages, so far as observations thus far made have indicated, are usually greatest in winter, considerable variation has sometimes been found in other seasons between the amounts collected by the standard gage and by gages having a larger diameter in proportion to the depth. This variation, while usually small, may nevertheless be large enough to affect materially calculations of the yield of watersheds, and it is most desirable that standard gages be set up for periods of several months alongside of gages of other types in use in order that any differences may be noted and allowance made for them in comparing observations in the same region in gages of different types.

The accuracy of rainfall observations depends, of course, very largely upon the faithfulness of the observer, and a carelessly kept record may be worse than useless because it is misleading. It is desirable, before using a rainfall record upon which dependence must be placed in making important calculations, to note whether it shows any serious or unaccountable differences when compared with other records in the regions, and, if so, to obtain information as to the location of the gage and the probable accuracy with which the observations have been kept.

As in the case of the earlier publication, fragmentary or obviously inaccurate or defective records have been omitted, but discussion or remarks as to the comparative reliability or value of the various records has not been attempted.

The elevations of the stations are given as nearly as possible; a few are unknown.

In a few cases, where the records are incomplete, figures have been interpolated from other records at stations where the conditions appear to be similar. These interpolated figures are printed in heavy type and have been used in making the averages.

MAINE.

RAINFALL AT BAR HARBOR, ME. Elevation, 20 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	4.00	1.89	4.15	3.15	1.30	**2.79**	2.85	3.49	0.50	**2.30**	3.15	1.95	31.52
1915	**5.90**	3.07	T	**3.50**	**2.60**	**2.58**	**7.30**	**4.27**	**0.91**	2.35	4.22	3.50	40.20
1916	1.89	3.52	4.35	3.85	3.50	4.04	4.32	2.83	3.60	2.58	2.94	4.53	41.95
1917	5.48	3.67	4.96	3.73	4.70	10.29	3.56	7.14	2.50	6.72	2.16	3.11	58.02
1918	4.61	4.35	2.20	4.70	1.14	4.10	2.31	3.53	9.77	6.78	5.10	3.31	51.90
1919	2.54	3.13	6.63	4.94	3.24	1.82	3.61	4.92	6.95	3.85	6.05	3.30	52.98
1920	3.16	6.67	5.23	11.05	2.33	3.13	**2.45**	**2.97**	**5.77**	**1.65**	**4.20**	**4.68**	53.29
Av. 44 yrs.	4.90	4.05	4.96	3.60	3.33	3.30	3.41	3.40	3.70	4.39	4.81	4.44	48.29

RAINFALL AT BRIDGTON, ME. Elevation, 450 feet.
(North Bridgton.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.53	1.47	4.65	5.12	1.52	2.74	2.70	3.70	0.58	1.63	2.99	1.96	31.59
1915	3.41	5.21	0.07	2.74	1.62	1.48	11.03	7.05	1.64	2.15	2.87	4.03	43.30
1916	1.67	4.36	2.51	5.04	6.45	6.95	3.58	7.83	4.84	2.15	4.25	4.50	54.13
1917	3.86	2.47	3.81	3.02	3.75	11.20	4.28	7.48	0.52	4.68	0.99	2.91	48.97
1918	3.55	2.50	1.34	2.37	2.43	5.44	4.55	3.74	8.72	4.11	2.70	3.84	45.29
1919	3.70	1.80	5.12	2.05	5.24	1.61	4.03	2.25	4.52	4.29	5.19	1.49	41.29
1920	1.51	5.38	5.06	7.28	2.51	2.48	3.69	4.99	5.90	1.97	5.01	8.02	53.80
Av. 27 yrs.	3.41	3.52	4.05	3.44	3.56	3.74	4.32	3.76	3.87	3.26	3.46	3.52	43.91

RAINFALL AT CORNISH, ME. Elevation, 778 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.87	1.94	4.95	5.45	1.57	3.81	4.58	5.98	0.84	1.17	3.27	2.54	38.97
1915	4.00	5.54	0.21	3.22	1.08	1.36	10.42	4.94	1.64	3.50	3.81	4.01	43.73
1916	2.09	5.83	4.10	6.23	5.46	7.83	4.53	4.13	3.88	2.62	3.73	4.76	55.19
1917	4.34	2.02	4.26	3.34	3.02	12.26	1.48	7.21	1.18	5.25	1.17	2.75	48.28
1918	2.72	2.89	1.32	2.91	2.47	**4.08**	**3.74**	4.86	9.02	2.83	3.25	4.55	44.64
1919	3.51	1.86	5.29	2.84	5.48	1.70	3.19	2.21	4.28	3.54	6.88	1.89	42.67
1920	2.20	5.63	5.19	7.17	2.99	2.95	4.25	5.83	6.99	1.29	4.88	6.86	56.23
Av. 64 yrs.	3.52	3.66	4.26	3.59	3.59	3.65	4.19	4.36	3.65	4.04	4.15	3.63	46.29

RAINFALL AT EASTPORT, ME. Elevation, 53 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	4.18	2.26	3.77	3.93	0.80	3.23	1.21	2.54	2.92	2.56	2.78	1.95	32.13
1915	5.80	2.57	0.57	3.58	3.14	3.45	3.75	2.68	1.21	1.86	2.16	3.82	34.59
1916	1.86	2.65	1.64	2.57	1.38	3.79	4.87	1.82	2.41	2.73	2.12	3.98	31.82
1917	3.87	2.79	2.95	3.22	1.62	7.40	1.90	4.44	1.51	4.01	1.72	2.99	38.42
1918	2.88	3.95	2.17	2.10	1.50	3.26	2.98	1.67	4.65	3.33	2.00	2.31	32.80
1919	3.06	1.86	2.67	2.15	3.98	1.25	2.82	2.98	3.85	3.36	4.10	3.02	35.10
1920	2.07	6.40	4.36	4.21	1.26	1.95	1.23	2.10	3.38	2.18	2.52	3.31	34.97
Av. 52 yrs.	3.80	3.32	4.00	2.96	3.34	3.21	3.22	3.16	3.00	3.91	3.65	3.67	41.24

RAINFALL AT EUSTIS, ME.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	1.43	1.61	4.09	4.00	1.61	2.84	2.53	3.02	2.31	3.34	2.25	1.86	30.89
1915	2.60	2.54	0.11	2.36	1.69	1.66	7.11	3.44	2.43	1.48	1.95	3.91	31.28
1916	1.73	2.85	1.65	2.86	4.75	5.14	3.82	5.58	2.41	1.66	3.42	3.56	39.43
1917	2.21	1.70	2.17	2.16	2.65	8.12	3.15	6.75	2.10	**6.13**	0.97	**3.74**	41.85
1918	1.81	2.18	2.28	1.22	3.65	2.35	3.74	1.95	5.98	6.39	3.16	2.19	36.90
1919	2.23	1.15	3.15	2.77	**4.17**	3.43	2.60	3.33	3.33	4.50	3.57	1.04	35.27
1920	1.59	3.60	2.97	3.08	1.38	4.02	4.40	3.32	4.61	2.43	4.04	5.27	40.71
Av. 7 yrs.	1.94	2.23	2.35	2.64	2.84	3.94	3.91	3.91	3.31	3.70	2.77	3.08	36.62

RAINFALL AT FAIRFIELD, ME. Elevation, 90 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	1.54	1.85	3.40	4.64	0.73	1.38	0.93	3.36	0.68	1.62	1.58	1.14	22.85
1915	3.26	3.46	0.13	2.41	0.91	0.85	7.78	4.96	1.31	2.50	1.21	2.66	31.44
1916	0.89	1.72	1.48	1.52	2.18	2.93	1.75	4.23	3.35	2.49	**4.64**	**4.37**	31.54
Av. 30 yrs.	2.96	2.68	3.14	2.32	2.78	2.52	3.38	3.24	2.79	2.72	2.70	2.94	34.17

RAINFALL AT FARMINGTON, ME. Elevation, 450 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.18	1.81	5.32	4.90	1.62	2.67	2.68	4.41	1.71	2.28	3.15	2.16	34.89
1915	3.51	4.21	0.13	3.12	2.66	2.47	7.54	3.89	2.02	2.32	3.15	4.08	39.10
1916	1.49	4.21	2.23	4.28	6.79	5.14	3.95	7.50	5.25	2.29	4.18	4.62	51.93
1917	3.89	1.90	4.21	3.19	2.85	10.74	2.55	7.14	1.69	5.86	1.12	3.86	49.00
1918	2.56	2.38	1.91	2.46	3.19	4.98	3.58	2.35	8.98	5.59	4.15	3.56	45.69
1919	2.62	1.51	5.79	2.57	5.77	3.10	2.49	2.57	5.08	4.15	5.43	1.49	42.57
1920	1.54	6.01	3.24	6.57	2.26	2.08	3.34	7.20	6.70	2.51	6.01	8.81	56.27
Av. 30 yrs.	3.37	3.12	4.05	3.17	3.61	3.69	3.60	3.87	3.79	3.36	3.51	3.54	42.68

RAINFALL AT GARDINER, ME. Elevation, 163 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.38	2.55	4.09	5.26	1.93	4.23	2.58	3.77	0.67	1.92	2.10	2.24	33.72
1915	3.83	4.02	0.12	1.89	2.41	2.01	9.17	3.92	1.21	2.95	3.08	3.74	38.35
1916	1.87	3.85	3.25	4.00	4.65	4.45	3.30	3.01	3.14	2.59	3.44	5.71	43.26
1917	4.24	2.57	4.79	3.04	2.22	8.88	2.25	4.80	0.71	5.16	1.33	2.64	42.63
1918	2.06	2.45	1.54	2.55	1.16	4.62	7.06	4.42	7.98	3.99	3.46	4.13	45.42
1919	3.99	1.61	4.90	2.37	3.92	2.07	1.84	1.92	5.06	5.42	4.00	1.85	38.95
1920	1.40	5.62	3.70	7.87	2.07	2.74	5.73	2.40	7.75	2.68	3.37	5.48	50.81
Av. 84 yrs.	3.62	3.47	3.95	3.30	3.60	3.23	3.40	3.49	3.39	4.10	3.95	3.69	43.19

RAINFALL AT GREENVILLE, ME. Elevation, 1 140 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.39	1.92	4.15	4.51	1.70	3.34	2.62	2.90	2.68	3.07	2.10	1.50	33.88
1915	3.03	4.36	0.24	3.49	2.99	2.00	8.98	6.13	3.74	1.83	2.56	4.84	44.19
1916	2.35	3.34	2.35	2.45	4.59	3.99	5.60	2.95	4.23	2.87	4.17	4.87	43.76
1917	3.95	1.90	3.90	3.25	3.22	8.69	6.97	4.98	1.80	6.40	1.26	3.62	49.94
1918	2.49	2.47	2.19	1.66	3.37	3.38	8.25	1.42	6.52	5.38	3.77	3.49	44.39
1919	2.85	2.27	4.03	2.96	4.76	2.25	5.82	3.77	3.71	4.13	3.58	1.81	41.94
1920	2.84	4.52	2.85	5.40	1.33	3.12	4.46	4.61	5.60	3.22	3.75	6.93	48.63
Av. 15 yrs.	2.88	2.92	3.31	3.02	3.45	3.76	5.33	3.93	4.30	3.86	3.23	3.49	43.48

RAINFALL AT HOULTON, ME. Elevation, 362 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	1.95	0.90	1.20	1.27	1.20	4.05	1.31	1.01	1.35	2.21	1.50	0.80	18.75
1915	2.31	1.14	0.35	1.63	4.19	1.32	4.03	2.17	2.37	1.52	1.46	3.85	26.34
1916	2.15	3.20	0.95	1.35	1.09	2.62	4.32	1.57	1.42	3.16	2.15	4.13	28.11
1917	2.35	1.20	2.17	1.74	1.90	6.91	3.69	4.89	1.97	4.97	0.90	2.80	35.49
1918	2.40	1.75	1.70	1.23	0.39	2.00	2.86	1.51	5.15	4.38	2.05	1.77	27.19
1919	2.00	1.25	2.02	2.75	3.26	1.87	1.57	0.46	4.48	2.05	2.94	1.63	26.28
1920	2.30	3.20	2.18	2.50	**0.96**	0.60	**3.66**	**3.02**	7.96	3.15	2.60	2.16	34.29
Av. 18 yrs.	2.31	2.07	2.24	2.04	1.93	2.53	2.59	2.40	3.08	3.05	1.87	2.15	28.26

RAINFALL AT LEWISTON, ME. Elevation, 185 feet.

(Union Water Power Company.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.76	1.93	5.04	5.12	2.44	2.92	3.00	4.54	0.53	1.61	2.92	2.50	35.31
1915	4.29	4.78	0.17	3.32	1.81	1.89	9.52	4.25	1.13	2.83	3.55	3.99	41.53
1916	2.18	4.64	2.49	4.76	6.46	4.65	3.35	2.69	2.99	2.47	4.12	4.46	45.26
1917	4.14	2.07	4.44	3.34	2.88	11.16	4.34	4.45	0.62	6.71	1.10	4.21	49.46
1918	3.18	2.44	1.35	2.56	2.55	3.83	6.86	4.95	7.70	3.29	3.86	4.22	46.79
1919	3.59	1.80	4.71	2.38	4.78	0.93	2.85	1.94	4.65	4.34	5.89	1.97	39.83
1920	1.72	7.56	5.80	7.00	2.04	2.19	3.58	2.71	9.27	2.31	4.35	7.54	56.07
Av. 46 yrs.	3.91	3.84	4.41	3.35	3.42	3.51	3.73	3.27	3.59	3.68	3.88	4.04	44.63

RAINFALL AT MADISON, ME. Elevation, 257 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.72	1.32	5.54	6.42	2.41	3.23	2.38	6.76	1.76	3.77	3.53	2.19	42.03
1915	4.21	5.27	0.31	4.78	2.50	2.00	7.98	3.69	2.20	2.46	2.94	3.39	41.73
1916	1.84	3.91	2.05	4.32	6.73	5.14	3.28	6.93	5.12	2.19	5.21	3.63	50.35
1917	3.12	1.51	3.95	3.03	2.69	9.96	2.37	5.46	2.09	5.10	0.28	3.08	42.64
1918	2.65	2.42	1.82	2.81	2.32	3.93	6.19	2.36	7.13	4.50	4.35	4.36	44.84
1919	2.09	1.80	4.56	3.10	4.97	1.82	3.05	2.06	3.47	4.05	3.90	1.38	36.25
1920	1.69	5.62	1.73	4.99	1.80	2.15	3.33	4.40	7.94	1.11	4.46	7.94	47.16
Av. 19 yrs.	3.35	3.05	3.84	3.88	3.72	3.83	4.26	4.44	4.29	3.86	3.31	3.43	45.26

RAINFALL AT MILLINOCKET, ME. Elevation, 386 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.71	1.60	4.43	4.18	1.11	3.56	3.79	3.05	2.06	3.16	2.74	2.40	35.79
1915	3.76	3.48	0.11	4.41	3.50	2.12	5.48	3.51	3.13	2.08	2.85	4.40	38.83
1916	1.57	2.98	1.64	2.39	4.01	2.93	5.68	2.35	3.38	3.34	5.33	5.23	40.83
1917	4.41	2.40	4.41	3.00	3.59	9.89	4.26	6.70	1.35	6.78	1.98	3.74	52.51
1918	3.10	3.03	1.94	1.80	4.08	3.45	7.73	2.28	6.23	6.03	5.25	3.24	48.16
1919	3.06	2.68	4.59	3.74	4.07	2.60	4.01	3.47	3.32	4.24	5.09	1.95	42.82
1920	1.97	6.85	3.37	7.56	1.91	2.75	3.64	3.95	8.05	1.89	3.72	8.03	53.69
Av. 21 yrs.	3.50	3.18	3.69	3.16	3.23	3.57	4.05	3.54	3.89	3.98	3.53	3.76	43.08

RAINFALL AT ORONO, ME. Elevation, 129 feet.

(Maine State College Agricultural Experiment Station.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	4.36	2.52	2.72	4.71	1.58	3.92	2.84	3.05	3.03	3.33	1.69	1.20	34.95
1915	2.49	3.56	0.34	3.30	4.97	2.47	6.67	4.67	1.19	2.62	3.04	3.57	38.89
1916	2.59	2.61	2.45	3.63	4.42	4.99	4.39	2.27	4.60	1.85	1.60	5.50	40.90
1917	4.11	3.67	3.22	2.39	3.18	7.49	4.05	4.09	1.08	5.89	1.55	3.24	43.96
1918	3.55	2.91	1.65	2.20	1.69	2.41	6.89	2.58	4.29	5.47	2.33	4.23	40.20
1919	3.45	1.10	2.92	2.29	3.08	1.44	4.07	0.92	3.07	2.31	2.61	1.42	28.68
1920	2.55	7.75	2.92	4.47	1.53	2.16	3.36	2.19	5.71	2.37	2.68	2.81	40.50
Av. 51 yrs.	3.88	3.61	3.86	2.90	3.34	3.31	3.47	3.34	3.50	3.84	3.64	3.52	42.21

RAINFALL AT PATTEN, ME. Elevation, 550 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.10	1.50	3.20	1.40	1.00	4.08	2.55	1.00	1.90	1.98	2.50	1.20	24.41
1915	2.50	3.60	0.30	2.90	3.90	2.30	6.30	4.20	2.80	4.20	2.30	2.40	37.70
1916	0.70	2.40	1.50	1.54	2.80	2.80	6.20	2.80	2.60	4.70	3.80	4.90	36.74
1917	2.40	1.80	3.60	2.00	5.20	8.90	3.60	3.84	0.00	8.20	1.20	3.50	44.24
1918	2.10	2.60	0.30	1.00	2.80	2.80	9.60	2.50	6.00	2.85	2.70	3.20	38.45
1919	2.40	2.50	3.40	3.30	6.80	1.20	...	...	...	...	...	...	....
Av. 16 yrs.	2.71	2.63	2.32	2.35	3.28	3.87	4.44	3.59	3.94	4.24	2.77	2.59	38.73

RAINFALL AT PORTLAND, ME, Elevation 99 feet..

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.19	3.92	4.37	4.42	2.02	2.34	3.10	3.81	0.73	2.05	3.17	2.98	36.10
1915	6.00	3.69	0.09	3.43	2.05	1.72	10.84	5.87	0.62	1.49	2.77	4.87	43.44
1916	2.15	4.30	5.22	5.56	5.64	6.32	3.82	2.14	1.47	1.29	2.83	6.09	46.83
1917	4.53	3.35	4.53	2.93	3.19	10.86	1.92	4.78	0.32	4.09	0.82	4.22	45.54
1918	3.48	2.62	1.93	2.71	1.76	2.73	2.94	4.64	5.58	2.39	3.38	4.30	38.46
1919	4.69	2.34	4.02	2.20	5.16	1.71	1.26	1.85	3.68	3.49	4.71	1.78	37.25
1920	3.49	8.97	5.53	7.04	3.23	2.73	3.67	3.83	8.16	1.12	5.87	6.05	59.69
Av. 50 yrs.	3.70	3.73	3.85	3.26	3.42	3.25	3.37	3.40	3.25	3.31	3.58	3.74	41.86

RAINFALL AT PRESQUE ISLE, ME.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1913	2.69	1.28	3.28	1.41	3.53	1.20	5.18	3.01	2.01	3.99	0.71	3.59	31.88
1914	2.95	2.70	2.50	4.05	2.74	4.80	2.23	2.35	2.10	2.75	3.50	2.10	34.77
1915	2.75	4.10	1.40	3.13	4.05	1.95	3.40	3.50	3.25	1.75	2.19	4.05	35.52
1916	2.20	2.35	1.10	1.75	3.44	2.17	3.68	1.70	4.04	2.37	2.85	5.90	33.55
1917	4.00	2.20	2.70	2.40	3.90	7.67	2.56	5.32	1.41	6.13	1.35	1.70	41.34
1918	2.40	3.80	1.80	1.65	4.00	**3.70**	**3.30**	1.62	**4.84**	**3.89**	**2.26**	**2.64**	35.90
1919	2.35	3.02	2.94	**2.38**	3.32	1.26	3.80	1.75	4.56	2.92	2.17	1.10	31.57
1920	1.49	4.00	1.96	5.31	0.91	6.08	4.28	3.62	5.21	5.35	1.35	4.00	43.56
Av. 8 yrs.	2.60	2.93	2.21	2.76	3.24	3.60	3.55	2.86	3.43	3.64	2.05	3.14	36.01

RAINFALL AT RUMFORD FALLS, ME. Elevation, 505 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	1.98	1.42	4.78	4.95	1.75	2.16	3.74	5.02	1.13	1.92	2.64	2.09	33.58
1915	3.82	4.65	0.21	3.48	0.78	2.46	8.38	5.84	1.84	1.79	2.30	3.47	39.02
1916	1.33	4.11	1.88	3.98	5.87	6.97	3.76	6.36	4.35	1.96	3.58	3.30	47.45
1917	3.36	1.15	3.35	2.77	2.85	10.40	1.94	7.20	1.33	5.24	1.06	3.26	43.91
1918	2.77	1.99	1.39	2.23	3.30	4.30	3.76	2.62	7.74	5.30	3.09	2.72	41.21
1919	2.72	1.50	5.10	1.99	3.94	1.74	1.42	2.41	3.98	5.57	4.19	1.24	35.80
1920	1.37	5.16	4.70	6.63	1.94	2.55	4.48	3.59	6.85	1.40	4.70	9.06	52.43
Av. 27 yrs.	2.95	3.15	3.43	3.18	3.42	3.50	3.84	3.61	3.55	3.20	3.24	3.06	40.13

RAINFALL AT VAN BUREN, ME. Elevation, 510 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	1.93	1.45	1.65	2.64	2.19	5.15	2.63	4.16	4.07	3.43	2.09	1.39	32.78
1915	1.31	4.22	1.56	1.99	5.14	1.08	4.36	2.99	4.75	2.44	2.06	3.79	35.69
1916	2.69	2.20	1.80	1.40	4.85	2.25	7.34	1.69	3.33	3.27	3.36	5.61	39.79
1917	3.39	2.01	3.93	2.53	2.18	7.86	2.74	6.02	1.77	5.28	1.81	0.76	40.28
1918	2.75	3.07	2.17	1.69	3.57	5.41	3.73	0.71	4.53	3.40	2.47	3.50	37.00
1919	3.03	2.63	2.88	2.00	2.55	3.08	...	...	...	...	...	2.25	....
1920	2.17	4.11	...	...	...	2.81	4.53	4.28	5.50	5.55	2.79	4.97	....
Av. 12 yrs.	2.38	2.56	2.55	1.93	3.30	3.80	3.88	3.29	3.13	3.36	1.98	2.91	35.07

RAINFALL AT WINSLOW, ME. Elevation, 90 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	1.44	1.34	4.00	5.14	1.12	2.07	1.07	4.88	0.95	2.49	1.52	1.77	27.79
1915	2.98	4.35	0.18	2.70	2.95	2.09	9.16	4.35	1.48	3.15	1.94	3.40	38.73
1916	1.07	2.83	0.94	2.72	3.67	3.35	3.69	4.41	3.78	3.17	5.11	4.12	38.86
1917	2.88	1.61	3.44	2.09	2.17	8.23	0.68	5.23	1.31	5.14	0.98	2.37	36.13
1918	1.78	2.37	0.74	1.74	1.83	2.15	6.06	3.42	6.66	4.84	3.26	2.96	37.81
1919	3.36	1.42	3.93	2.27	4.15	1.93	2.80	1.79	4.41	4.18	3.63	1.23	35.10
1920	0.79	5.62	3.05	7.54	1.89	2.26	4.20	2.35	9.40	1.51	3.95	5.30	47.86
Av. 25 yrs.	2.87	2.58	3.42	2.86	3.02	2.96	3.76	3.34	3.60	3.31	2.90	2.82	37.44

NEW HAMPSHIRE.

RAINFALL AT ALSTEAD, N. H. Elevation, 1 120 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.04	1.31	4.05	4.92	2.06	2.28	3.17	5.35	0.37	2.25	2.08	1.73	31.61
1915	3.97	3.93	0.40	2.94	1.55	1.67	11.07	8.14	1.90	2.85	1.77	4.68	44.87
1916	1.28	3.63	2.47	3.13	3.20	6.26	4.13	5.33	6.54	1.40	3.07	2.27	42.71
1917	2.80	1.40	2.67	1.92	3.49	8.19	2.72	4.00	0.55	6.55	0.59	2.42	37.30
1918	2.43	1.84	1.82	2.54	4.80	3.61	1.56	3.89	8.55	2.09	2.47	2.74	38.34
1919	2.18	1.81	4.60	1.79	6.67	2.10	2.38	4.37	6.36	2.91	5.26	1.56	41.99
1920	1.37	3.11	3.59	6.87	2.16	3.48	3.25	5.59	5.91	1.73	3.88	5.40	46.34
Av. 27 yrs.	2.70	2.76	3.37	3.00	3.28	3.33	4.12	4.35	3.96	3.06	3.06	3.14	40.13

RAINFALL AT BERLIN, N. H. Elevation, 1 090 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1917	...	...	...	...	...	...	...	...	...	5.90	0.41	4.18	....
1918	3.09	3.67	2.03	1.79	1.98	3.08	2.24	4.13	6.03	5.08	2.62	2.83	38.57
1919	2.49	1.05	4.65	1.81	2.51	2.27	1.44	2.39	4.21	5.29	4.82	1.42	34.35
1920	1.87	4.31	5.24	3.86	0.74	2.48	3.18	4.13	5.44	1.41	4.64	5.71	43.01
Av 3 yrs.	2.48	3.01	3.97	2.49	1.74	2.61	2.29	3.55	5.23	3.93	4.02	3.32	38.64

RAINFALL AT BETHLEHEM, N. H. Elevation, 1 470 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	1.93	1.61	3.24	6.10	1.16	3.27	3.37	4.39	2.34	1.11	2.39	0.65	31.56
1915	1.87	3.26	0.47	3.26	1.82	2.80	7.16	3.39	2.36	1.73	1.66	3.70	33.48
1916	1.69	3.07	3.28	2.39	3.48	6.32	6.02	3.23	5.25	1.19	3.71	2.84	42.47
1917	2.36	1.31	2.66	2.43	2.00	7.02	2.39	5.02	1.49	5.60	0.60	2.15	35.03
1918	1.83	1.90	1.28	1.71	3.56	3.12	1.72	4.11	7.91	6.14	2.06	3.29	38.63
1919	2.27	1.66	4.77	3.32	2.39	2.26	1.88	2.81	4.67	4.81	5.11	1.79	37.74
1920	2.40	3.75	4.18	5.40	1.43	2.86	3.52	2.44	6.35	0.95	2.85	5.23	41.36
Av. 28 yrs.	2.31	2.38	3.03	2.68	3.13	3.77	4.02	3.80	4.01	3.09	2.66	2.57	37.45

RAINFALL AT BROOKLINE, N. H. Elevation, 250 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.75	2.88	5.26	4.81	2.33	1.83	3.49	2.49	0.45	1.35	2.38	3.16	33.18
1915	4.95	3.60	0.02	2.48	1.61	2.29	8.91	7.04	1.19	2.98	3.46	3.80	42.33
1916	1.56	5.30	3.50	4.80	4.47	6.48	4.93	2.61	4.19	1.44	3.11	2.92	45.31
1917	3.35	2.87	3.68	2.48	3.93	5.57	1.48	4.76	0.62	5.36	1.00	5.17	40.27
1918	2.01	2.08	1.70	4.10	1.43	**3.54**	**2.58**	**2.59**	**7.06**	**1.24**	**2.46**	**3.26**	34.05
Av. 26 yrs.	2.98	3.43	3.84	3.66	3.36	3.54	3.66	3.82	3.45	3.53	3.13	3.49	41.89

RAINFALL AT CONCORD, N. H. Elevation, 350 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.75	1.65	3.90	3.87	1.54	2.39	3.49	5.91	0.21	1.12	2.28	2.07	31.18
1915	3.47	2.89	T	2.62	0.99	1.37	10.29	6.26	1.21	3.02	2.97	3.42	38.51
1916	1.22	4.18	3.01	2.96	3.95	6.26	4.55	3.45	4.37	1.34	2.63	2.21	40.13
1917	3.35	1.50	2.03	1.63	2.92	8.30	1.27	4.72	0.57	3.54	0.85	2.32	33.00
1918	1.65	1.82	1.26	2.26	2.43	2.77	1.74	3.97	6.96	1.14	2.34	3.52	31.86
1919	3.05	1.94	3.28	1.92	5.11	1.64	1.47	1.60	3.07	2.71	3.98	0.99	30.76
1920	1.46	3.23	2.43	5.91	2.50	3.68	3.24	4.77	7.91	0.98	2.62	5.80	44.53
Av. 64 yrs.	3.03	2.79	3.19	2.90	3.17	3.22	3.66	3.82	3.38	3.39	3.25	3.09	38.89

RAINFALL AT DURHAM, N. H. Elevation, 88 feet.

(N. H. Agricultural College.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.48	2.21	4.22	5.89	1.22	1.42	3.27	3.46	0.19	1.32	2.24	3.14	31.06
1915	3.98	2.84	0.05	1.75	1.47	2.08	11.22	6.18	0.85	1.84	3.61	3.85	39.72
1916	0.60	2.36	2.20	5.29	7.78	6.79	3.61	1.69	4.02	1.41	2.77	4.95	43.47
1917	3.16	1.81	2.31	1.45	4.10	7.52	1.28	4.23	0.43	7.09	0.73	2.37	36.48
1918	2.05	1.90	1.21	1.37	2.41	2.74	5.24	3.25	6.43	0.73	1.39	2.49	31.21
1919	2.81	2.46	3.85	2.33	4.66	1.87	1.61	2.16	5.36	2.79	5.20	1.65	36.75
1920	1.75	4.33	3.27	5.82	3.65	4.04	2.77	3.52	8.82	1.35	5.28	5.01	49.61
Av. 26 yrs.	3.38	3.00	3.25	3.13	3.13	3.42	3.35	3.31	3.92	3.09	2.84	3.49	39.31

RAINFALL AT FRANKLIN, N. H. Elevation, 440 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.67	1.81	4.67	5.76	1.53	3.08	3.26	8.50	0.50	1.27	2.45	2.89	38.39
1915	4.47	4.26	0.06	3.29	0.83	1.17	11.70	7.23	1.67	2.83	3.09	3.69	44.29
1916	1.58	4.07	3.09	3.53	4.56	9.04	4.33	3.51	6.09	1.60	3.56	3.04	48.00
1917	3.73	1.73	3.16	2.65	3.21	7.51	2.92	3.46	0.87	4.89	1.03	3.86	39.02
1918	3.14	2.34	2.31	2.32	1.84	3.68	2.95	3.92	8.25	2.74	2.34	3.25	39.08
1919	2.57	1.79	4.24	1.59	6.36	2.22	2.59	2.75	2.97	3.44	5.54	1.25	37.31
1920	1.57	4.08	3.67	5.93	2.58	2.88	3.85	5.50	8.18	1.33	3.67	6.47	49.71
Av. 19 yrs.	2.95	2.88	3.33	3.20	3.11	3.78	3.72	3.97	4.18	2.92	2.73	3.13	39.90

RAINFALL AT HANOVER, N. H. Elevation, 603 feet.

(Dartmouth College.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.31	1.72	4.35	5.77	1.82	1.90	2.67	3.62	1.08	1.17	2.29	1.54	30.24
1915	3.32	3.92	0.03	1.81	0.98	2.50	9.69	4.81	1.59	1.82	1.93	4.35	36.75
1916	1.29	3.34	3.01	3.06	3.57	5.42	3.54	2.85	4.96	1.04	2.44	2.41	36.93
1917	2.03	1.11	2.40	2.02	2.29	6.67	1.48	3.76	0.87	5.49	0.55	2.12	30.79
1918	2.21	1.85	1.44	2.41	3.54	4.04	1.59	4.53	6.18	2.92	1.56	2.25	34.52
1919	1.84	1.23	3.41	1.74	5.56	1.70	2.17	3.88	4.88	4.04	4.15	1.62	36.22
1920	2.69	3.76	3.39	6.02	3.85	2.39	3.34	3.21	6.09	1.47	5.26	4.68	46.15
Av. 75 yrs.	2.71	2.44	2.67	2.41	3.29	3.53	3.43	3.48	3.21	3.17	2.80	2.70	35.84

RAINFALL AT KEENE, N. H. Elevation, 506 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.33	1.72	4.05	4.54	1.70	2.49	2.34	5.08	0.25	1.41	1.80	1.76	29.47
1915	4.44	4.36	0.04	2.61	1.11	1.64	11.09	5.51	2.44	2.71	2.25	5.61	43.81
1916	1.57	3.84	2.78	3.29	3.25	5.70	4.48	3.27	6.00	1.27	3.71	2.64	41.80
1917	3.41	2.28	2.97	1.63	2.94	5.79	2.27	5.38	0.74	5.62	0.52	3.40	36.95
1918	2.78	2.16	1.95	2.84	5.18	3.69	2.53	2.64	7.01	1.52	2.21	3.39	37.90
1919	2.15	1.81	4.93	1.82	5.93	1.03	2.26	3.87	4.69	2.72	4.95	1.53	37.69
1920	1.77	5.04	4.21	5.90	2.75	2.87	3.89	6.27	5.19	1.46	3.73	5.22	48.30
Av. 29 yrs.	2.66	2.79	3.16	2.68	3.20	2.99	3.80	4.16	3.61	2.76	2.72	3.06	37.59

RAINFALL AT LAKEPORT, N. H. Elevation, 500 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.14	2.14	5.75	5.75	1.45	2.81	4.67	4.35	0.24	1.04	3.00	2.96	37.30
1915	4.74	4.67	0.07	3.35	0.83	1.52	12.56	9.46	1.36	2.47	2.80	3.76	47.59
1916	1.90	4.35	3.57	3.83	4.01	8.02	4.57	2.35	4.13	1.54	3.42	3.62	45.31
1917	3.65	2.05	3.82	3.56	2.79	7.81	2.00	5.28	0.43	4.32	0.80	4.32	40.83
1918	3.25	2.50	2.24	2.43	2.38	3.42	2.07	4.06	7.29	2.81	2.51	4.26	39.22
1919	2.92	2.52	4.50	1.94	6.12	2.38	2.47	1.71	3.08	4.10	5.60	1.29	38.63
1920	2.16	7.75	5.14	6.32	2.64	3.12	3.56	3.71	8.40	0.80	4.33	3.75	51.68
Av. 64 yrs.	3.53	3.48	3.84	3.12	3.25	3.21	3.88	3.62	3.64	3.49	3.65	3.55	42.26

RAINFALL AT MANCHESTER, N. H. Elevation, 200 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.62	2.04	4.54	4.78	2.20	1.86	3.93	3.15	0.12	0.72	2.30	2.95	31.21
1915	3.61	2.93	0.00	1.39	2.44	2.06	11.40	7.18	0.71	2.67	2.77	3.36	40.52
1916	1.25	4.75	2.45	3.76	3.73	5.71	4.06	5.41	4.98	1.09	2.88	3.25	43.32
1917	3.00	2.36	3.17	1.82	3.67	7.58	2.37	3.65	1.09	4.06	0.84	3.10	36.71
1918	2.67	1.72	2.19	2.39	1.71	2.69	2.62	4.37	6.36	0.93	2.85	3.24	33.74
1919	3.43	2.48	4.65	2.13	5.66	1.60	2.72	1.45	3.93	2.30	6.90	1 36	58.61
1920	1.83	4.82	4.13	6.24	3.24	4.25	2.58	6.91	7.52	1.58	3.77	6.08	52.95
Av. 46 yrs.	3.20	3.11	3.57	2.92	3.15	2.96	3.39	3.38	3.28	3.02	3.21	3.28	38.47

RAINFALL AT MERRIMAC, N. H. Elevation, 120 feet.
(Thornton's Ferry.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.30	2.56	3.68	5.50	2.16	1.76	2.84	2.11	0.22	0.88	2.09	2.62	28.72
1915	4.10	2.63	0.00	2.07	2.06	2.20	8.24	5.05	0.83	2.14	2.30	3.89	35.51
1916	1 32	5.29	2.63	4.59	4.31	5.85	3.16	3.40	3.08	1.25	2.84	4.22	41.94
1917	2.61	2.18	3.58	1.79	2.89	5.80	2.64	4.57	0.48	3.37	0.95	3.21	34.07
1918	2.86	2.41	1 90	2.03	1.16	2.69	2.22	1.98	6.68	0.48	2.86	2.73	30.00
1919	3.60	2.68	5.31	1.66	5.81	0.37	0.34	2.21	2.65	1.58	5.29	1.13	32.63
1920	0.31	2.31	3.18	4.49	3.04	3.89	1.56	2.37	8.42	0.43	4.41	5.60	40.01
Av. 7 yrs.	2.44	2.87	2.90	3.16	3.06	3.22	3.00	3.10	3.19	1.45	2.96	3.34	34.69

RAINFALL AT NASHUA, N. H. Elevation, 125 feet.
(Nashua Mfg. Co., Jackson Mills.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.85	3.01	4.93	5.34	2.43	1.42	4.31	3.10	0.19	1.03	2.78	2.62	34.01
1915	4.36	1.95	T	1.69	2.06	1.24	8.89	5.72	0.99	2.66	2.63	3.60	35.79
1916	1.13	3.32	3.21	4.38	5.02	7.57	3.20	2.66	**3.09**	1.01	**2.50**	**2.87**	39.96
1917	2.96	2.58	3.67	2.02	3.47	5.06	1.85	3.80	0.82	3.97	1.00	3.30	34.50
1918	3.15	2.45	2.19	2.47	1.58	2.93	2.97	1.96	7.74	0.64	2.57	2.81	33.46
1919	2.60	2.94	4.20	1.86	4.31	1.65	1.21	0.91	4.80	1.65	4.32	1.12	31.57
1920	1.76	5.23	3.95	6.73	2.91	4.29	3.30	1.80	8.96	0.60	4.15	5.35	49.03
Av. 37 yrs.	3.47	3.63	3.79	3.16	3.22	2.91	3.42	3.67	3.32	2.99	3.13	3.53	40.24

RAINFALL AT NEWTON, N. H. Elevation, 200 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.84	1.86	4.13	7.16	2.53	1.38	2.89	2.94	0.17	1.00	2.77	2.98	32.65
1915	4.23	2.38	0.16	1.92	1.42	1.88	11.47	7.42	0.20	2.57	3.22	3.79	40.66
1916	1.48	4.22	2.57	4.69	5.26	7.30	3.76	2.97	**3.00**	1.14	2.55	2.71	41.65
1917	2.85	1.89	3.05	2.83	3.63	5.87	1.31	3.94	0.88	6.32	1.14	2.69	36.40
1918	2.58	2.09	1.80	2.38	1.82	3.31	4.00	3.11	7.04	1.24	2.80	**2.27**	34.44
Av. 29 yrs.	3.22	3.12	3.45	3.33	3.27	3.15	3.46	3.30	3.25	3.48	3.09	3.19	39.31

RAINFALL AT PITTSBURG, N. H. Elevation, 1 575 feet.
(First Connecticut Lake.) (Connecticut Valley Lumber Company.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1918	1.38	2.04	1.74	1.57	4.01	3.10	4.24	2.99	6.97	8.74	4.05	4.45	45.28
1919	3.46	1.95	3.16	3.72	2.80	2.65	4.23	4.63	6.59	7.13	3.22	1.80	45.34
1920	2.04	2.93	3.56	4.45	1.11	5.83	8.19	3.22	7.14	2.52	2.75	6.72	50.46
Av. 3 yrs.	2.29	2.31	2.82	3.25	2.64	3.86	5.55	3.61	6.90	6.13	3.34	4.32	47.02

RAINFALL AT PITTSBURG, N. H. Elevation, 1 575 feet.
(Second Connecticut Lake.) (Connecticut Valley Lumber Company.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1918	1.38	4.62	3.42	1.34	5.01	4.27	5.13	2.43	7.65	8.33	3.81	4.31	51.70
1919	3.42	1.58	2.65	2.19	3.80	1.93	4.67	4.96	5.62	7.52	3.35	2.04	43.73
1920	2.10	3.09	3.70	5.24	0.93	6.20	8.18	3.78	7.34	3.45	3.22	7.75	54.98
Av. 3 yrs.	2.30	3.10	3.26	2.92	3.25	4.13	5.99	3.72	6.87	6.43	3.46	4.70	50.13

RAINFALL AT PLYMOUTH, N. H. Elevation, 500 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.22	1.23	4.20	6.09	1.04	3.16	4.42	4.23	0.51	1.61	2.75	2.20	33.66
1915	3.94	4.95	0.16	2.18	1.36	2.71	8.71	6.29	2.09	2.30	2.33	3.20	40.22
1916	1.77	3.60	1.97	2.27	3.88	6.02	6.22	3.43	5.20	1.47	3.55	2.14	41.52
1917	3.61	1.42	3.47	2.37	2.36	7.27	2.04	3.38	0.67	5.60	0.83	1.94	34.96
1918	1.95	2.46	1.26	2.09	2.30	4.00	2.44	4.10	7.57	3.28	2.42	3.17	37.04
1919	2.27	1.50	4.68	1.66	6.01	2.66	2.47	3.30	4.78	4.98	4.97	1.29	40.57
1920	1.65	3.06	3.36	6.92	2.54	2.76	4.55	3.79	7.05	1.41	4.08	6.83	48.00
Av. 33 yrs.	3.05	2.90	3.43	2.78	3.24	3.40	3.78	3.95	3.87	3.21	3.08	3.09	39.78

RAINFALL AT STEWARTSTOWN (WEST), N. H. Elevation, 1 050 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	**2.07**	**1.14**	**2.28**	1.86	0.99	2.64	3.32	2.75	4.32	2.08	2.09	0.98	26.52
1915	1.21	2.01	0.19	**2.11**	0.81	3.18	8.10	6.94	2.76	2.49	1.03	2.41	33.24
1916	1.47	1.72	1.43	1.89	3.79	5.34	3.22	4.01	3.71	1.95	2.41	1.61	32.55
1917	2.77	1.40	1.93	1.97	1.12	5.46	1.77	7.50	1.15	5.77	0.53	1.70	33.07
1918	1.84	1.23	3.43	0.37	2.27	3.44	3.48	1.26	6.03	5.78	2.13	2.00	33.26
1919	1.91	3.13	2.81	1.97	2.12	3.29	2.15	3.87	5.05	5.45	2.90	0.83	35.48
1920	2.08	2.73	2.10	4.48	0.98	3.67	4.61	2.48	3.12	3.31	2.23	2.17	33.96
Av. 7 yrs.	1.91	1.91	2.02	2.09	1.73	3.86	3.81	4.12	3.73	3.83	1.90	1.67	32.58

RAINFALL AT WARREN (GLEN CLIFF), N. H. Elevation, 1 650 feet.
(Benton, N. H., record prior to 1914.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	**2.08**	**1.42**	1.95	11.18	0.90	1.94	4.42	3.27	1.58	1.15	3.80	1.81	35.50
1915	**2.90**	3.89	0.72	2.74	1.84	2.95	8.70	5.23	1.90	2.30	3.04	4.66	40.87
1916	1.99	3.70	2.01	3.75	3.93	5.33	3.67	4.35	5.22	3.19	3.63	4.04	44.81
1917	2.69	2.17	5.19	3.16	3.69	7.76	2.77	2.84	1.68	6.81	0.73	2.15	41.64
1918	2.61	2.56	2.26	2.03	4.17	4.19	2.06	6.30	6.96	5.88	2.57	3.29	44.88
1919	2.27	1.66	4.77	2.09	3.83	2.96	2.73	3.32	6.64	5.00	4.77	1.43	41.47
1920	2.15	5.38	3.42	5.54	2.46	2.98	3.63	3.81	6.36	1.02	4.75	5.15	46.65
Av. 11 yrs.	2.54	2.68	3.07	3.61	3.30	3.44	3.99	4.10	4.02	3.69	3.16	3.07	40.67

VERMONT.

RAINFALL AT BELLOWS FALLS, VT. Elevation, 300 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	**2.18**	**1.52**	**4.05**	4.38	1.50	2.01	2.30	4.74	0.56	1.31	1.32	1.58	27.45
1915	4.58	3.82	0.07	1.86	1.64	1.20	9.34	8.47	1.47	2.34	2.81	3.90	41.50
1916	1.04	4.54	2.53	3.00	2.68	4.01	3.53	2.29	5.55	1.27	2.83	1.69	34.96
1917	2.60	1.74	2.77	1.21	2.33	6.20	1.28	2.85	0.35	6.11	0.77	1.53	29.74
1918	3.02	2.30	1.91	2.66	4.63	4.04	0.68	3.31	7.40	1.61	2.12	2.36	36.04
1919	2.10	2.72	4.81	1.83	6.83	1.27	2.25	3.53	3.65	1.62	4.36	2.03	37.00
1920	1.51	2.69	2.53	6.63	2.58	1.70	3.59	2.35	3.68	4.48	3.88	5.39	41.01
Av. 7 yrs.	2.43	2.76	2.67	3.08	3.17	2.92	3.28	3.93	3.24	2.68	2.58	2.64	35.38

RAINFALL AT BLOOMFIELD, VT. Elevation, 900 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	1.37	0.90	2.52	3.88	0.89	3.07	3.54	3.20	2.99	1.12	1.84	1.18	26.50
1915	2.01	3.73	0.41	1.99	1.82	3.11	11.93	5.94	3.31	2.29	1.67	2.73	40.94
1916	1.82	2.11	0.80	2.56	3.26	5.62	5.29	4.16	4.73	2.01	4.58	1.77	38.71
1917	2.94	1.29	2.86	1.79	1.62	5.84	3.38	7.64	2.24	7.08	0.45	1.83	38.96
1918	1.52	2.86	1.28	1.28	4.50	4.69	2.59	4.53	8.03	8.20	2.71	2.91	45.10
1919	2.37	1.30	3.03	3.60	2.76	4.71	2.47	3.03	5.38	7.36	3.29	1.41	40.71
1920	1.53	2.35	2.65	5.91	1.62	1.63	10.02	3.20	5.09	1.85	3.49	5.62	44.96
Av. 14 yrs.	2.18	2.03	2.33	2.82	2.95	4.00	5.67	4.17	4.22	3.55	2.25	2.39	38.56

RAINFALL AT BURLINGTON, VT. Elevation, 404 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	1.60	0.41	1.84	4.27	0.36	3.30	1.94	2.78	2.36	1.10	1.41	1.25	22.62
1915	1.16	3.28	0.22	0.73	1.73	2.18	5.46	2.88	0.97	2.74	1.72	2.61	25.68
1916	0.87	2.32	1.31	1.85	4.69	4.32	1.67	1.06	4.06	1.43	2.08	2.79	28.45
1917	2.18	1.60	2.99	2.42	2.00	3.69	1.88	3.52	3.62	5.76	0.95	1.10	31.71
1918	1.73	1.79	1.86	1.67	4.92	4.52	2.95	4.01	5.67	6.75	4.53	1.78	42.18
1919	1.18	1.02	3.32	2.42	3.54	1.64	1.47	2.91	3.40	6.02	2.10	1.08	30.10
1920	1.29	1.74	3.38	5.83	1.74	4.01	4.85	2.37	5.94	1.76	2.88	5.29	41.08
Av. 86 yrs.	1.82	1.65	2.04	2.07	3.05	3.40	3.87	3.42	3.60	3.28	2.51	1.96	32.67

RAINFALL AT CAVENDISH, VT. Elevation, 910 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.08	2.56	3.57	2.84	1.09	2.70	5.47	6.17	0.62	1.60	1.76	2.95	33.41
1915	4.89	4.22	T	2.18	1.30	2.85	10.55	5.91	1.80	2.78	3.27	3.81	43.56
1916	2.06	2.46	4.32	4.59	3.12	5.73	2.79	1.30	5.23	1.45	3.62	1.84	38.51
1917	3.04	2.16	2.87	2.80	4.24	4.56	1.52	2.08	0.87	5.37	1.16	4.57	35.24
1918	3.44	1.34	1.08	2.98	3.46	4.29	3.84	2.52	7.14	2.20	3.24	1.62	37.15
1919	1.24	2.14	4.98	1.67	6.71	2.02	3.36	4.19	4.46	2.72	4.80	1.70	39.99
1920	1.45	4.54	3.55	6.59	2.25	3.14	2.60	3.49	4.24	2.69	5.89	5.94	46.37
Av. 17 yrs.	2.47	2.40	2.64	2.64	3.43	3.14	3.78	3.43	4.13	2.98	2.70	2.69	36.43

RAINFALL AT CHELSEA, VT. Elevation, 840 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	1.50	2.02	4.42	**5.41**	0.65	1.96	2.60	3.94	1.82	1.20	2.48	1.36	29.36
1915	2.80	3.38	0.20	1.63	2.05	2.23	5.73	4.19	1.78	1.52	1.65	2.92	30.08
1916	1.73	2.96	1.53	2.25	3.69	5.10	2.39	1.91	4.87	1.36	2.69	2.21	32.69
1917	2.21	0.94	2.29	**2.04**	2.23	4.81	2.52	5.16	1.51	5.67	0.76	2.35	32.49
1918	1.70	1.37	1.89	1.95	3.20	2.97	2.25	4.25	5.18	4.40	2.27	2.32	33.75
1919	1.45	1.76	4.42	1.92	4.36	2.21	1.40	2.85	5.60	3.28	3.30	1.32	33.87
1920	1.51	2.81	3.89	6.23	1.37	3.59	3.24	1.75	4.69	2.29	4.72	5.22	41.31
Av. 35 yrs.	2.68	2.64	2.95	2.38	3.09	3.21	3.40	3.65	3.38	2.68	2.81	2.61	35.48

RAINFALL AT CORNWALL, VT. Elevation, 507 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	1.16	1.30	1.44	5.31	1.02	2.35	4.43	5.28	1.72	1.47	2.52	1.24	29.24
1915	1.90	2.40	0.17	0.63	1.44	1.70	3.96	3.43	0.77	2.51	2.18	2.87	23.96
1916	1.24	2.48	2.15	1.82	2.81	3.61	2.17	1.38	3.36	1.73	1.69	1.84	26.28
1917	1.87	1.08	2.51	1.95	2.08	3.72	2.15	3.56	1.86	6.60	0.69	1.42	29.49
1918	1.57	1.76	2.17	1.25	3.76	3.40	2.85	3.57	7.03	5.11	3.69	1.36	37.52
1919	1.05	0.73	1.65	1.47	2.97	3.25	3.26	2.67	3.70	3.25	3.66	1.05	28.71
1920	1.48	3.60	2.86	5.59	1.10	2.05	4.44	3.60	4.95	2.58	3.12	4.54	39.91
Av. 34 yrs.	2.11	2.07	2.15	1.98	2.85	3.32	3.44	3.35	3.18	2.73	2.49	2.17	31.84

RAINFALL AT ENOSBURG FALLS, VT. Elevation, 601 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	1.78	0.47	1.74	3.79	0.64	3.22	3.63	4.94	3.99	2.34	2.48	1.43	30.45
1915	1.71	3.76	0.64	1.36	2.89	2.56	5.21	2.07	2.65	3.43	2.77	3.83	32.88
1916	1.82	2.09	0.97	1.62	4.14	3.53	4.48	3.38	5.95	2.52	3.24	3.23	36.97
1917	2.33	1.54	1.13	2.27	2.38	4.21	6.62	4.44	3.41	7.09	0.99	1.51	37.92
1918	2.02	1.33	0.94	0.91	3.01	4.89	4.74	1.81	9.69	8.33	3.16	1.54	42.37
1919	1.32	0.91	3.36	4.10	3.36	5.12	2.38	6.12	4.87	7.50	2.55	0.88	42.47
1920	1.41	1.16	3.14	5.60	1.08	4.02	6.86	2.00	4.47	2.57	3.50	4.90	40.71
Av. 29 yrs.	2.47	2.53	2.84	2.53	3.45	4.21	4.77	3.70	3.82	3.57	3.11	2.80	39.80

RAINFALL AT GUILDHALL, VT. Elevation, 875 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	**1.58**	**1.45**	**2.56**	1.59	0.75	2.86	3.36	5.66	2.72	0.56	1.61	0.50	25.20
1915	1.65	3.18	0.36	1.37	2.03	2.33	8.51	5.72	3.59	1.68	1.41	2.57	34.40
1916	1.85	1.88	0.99	1.75	3.74	4.69	5.11	5.35	4.08	1.74	3.01	1.89	36.08
1917	2.36	1.10	1.73	1.39	1.55	6.91	2.79	7.49	2.48	5.88	0.72	1.50	35.90
1918	1.45	2.18	1.64	0.82	2.21	3.44	3.42	3.84	6.82	7.17	2.21	1.52	36.72
1919	1.27	1.19	1.44	2.24	2.40	2.76	1.09	2.45	3.72	4.67	2.58	1.12	26.93
1920	1.53	1.96	2.10	4.00	1.25	1.06	5.19	1.73	4.56	2.72	1.59	1.81	29.50
Av. 7 yrs.	1.67	1.85	1.54	1.88	1.99	3.43	4.21	4.60	4.00	3.49	1.88	1.56	32.10

RAINFALL AT HALIFAX, VT. Elevation, 900 feet.
(Mays Mills.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	**2.94**	**2.14**	**3.62**	3.27	0.79	0.06	1.63	4.19	0.21	1.39	2.13	2.02	24.39
1915	3.92	1.71	0.00	1.56	0.78	0.37	10.50	6.49	**2.09**	1.95	2.11	7.42	38.90
1916	2.35	6.24	4.70	3.34	3.59	2.96	4.98	2.69	5.86	0.78	5.01	2.82	45.32
1917	3.87	2.18	3.97	1.99	4.60	4.77	1.83	2.99	1.07	7.30	1.00	3.64	39.21
1918	3.86	2.75	1.29	2.45	3.08	1.92	1.66	2.53	6.35	1.12	2.47	3.14	32.62
1919	1.98	2.41	4.95	1.60	7.71	1.24	2.54	4.11	4.63	3.14	5.11	1.90	41.32
1920	1.86	6.19	4.40	6.36	2.60	5.17	2.20	4.67	5.07	0.93	5.81	5.58	50.84
Av. 7 yrs.	2.97	3.37	3.27	2.94	3.31	2.36	3.62	3.95	3.61	2.37	3.38	3.79	38.94

RAINFALL AT HYDE PARK, VT. Elevation, 576 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1913	3.82	1.27	5.37	2.20	2.63	2.52	3.87	1.34	2.15	3.28	1.63	2.20	32.28
1914	1.90	1.32	2.58	4.72	0.52	4.36	6.12	5.45	3.36	1.52	2.92	1.55	36.32
1915	1.71	3.43	0.53	1.85	1.83	2.10	7.36	2.75	3.38	2.49	2.62	2.76	32.81
1916	1.70	2.09	1.36	2.63	3.23	5.30	2.61	2.74	4.65	2.84	3.38	2.68	35.21
1917	2.85	1.10	2.12	3.16	2.00	7.59	6.45	7.23	2.10	6.54	1.38	2.13	44.65
1918	2.47	2.30	2.01	1.43	5.56	4.37	4.79	2.42	6.98	6.59	2.75	**1.93**	43.60
Av. 6 yrs.	2.41	1.92	2.33	2.66	2.63	4.37	5.20	3.65	3.77	3.88	2.45	2.21	37.48

RAINFALL AT LONDONDERRY (SOUTH), VT. Elevation, 1 000 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	**2.06**	**1.94**	**3.81**	5.24	1.72	2.11	3.92	5.29	0.27	0.21	2.44	1.89	30.90
1915	4.89	4.95	0.15	2.78	1.00	2.48	10.22	5.84	1.58	2.31	2.34	3.81	42.35
1916	2.38	4.75	3.28	3.58	2.89	3.69	3.33	3.25	3.76	1.62	3.78	2.53	38.84
1917	2.43	2.11	2.62	2.39	3.56	3.48	2.61	4.75	0.57	5.56	0.87	2.44	33.39
1918	2.47	3.02	1.97	2.50	2.63	4.12	1.63	2.64	6.40	2.04	1.52	2.52	33 46
1919	1.69	1.42	4.76	1.75	5.53	1.66	4.13	3.05	4.41	3.50	3.55	1.74	37.19
1920	1.09	2.41	1.84	5.27	1.50	2.93	3.08	5.32	2.59	3.11	6.37	3.40	38.91
Av. 7 yrs.	2.43	2.94	2.63	3.36	2.69	2.92	4.13	4.31	2.80	2.62	2.98	2.62	36.43

RAINFALL AT LUNENBURG, VT. Elevation, 850 feet.
(Fitzdale.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	**1.86**	**1.80**	**2.92**	2.95	0.91	2.53	3.94	5.02	2.08	0.72	1.03	0.24	26.00
1915	1.41	2.02	0.06	1.69	1.47	1.68	7.20	3.30	2.54	1.36	1.27	2.09	26.09
1916	1.90	0.88	1.35	1.14	3.36	6.47	3.79	4.38	4.58	1.46	2.49	3.59	35.39
1917	1.95	0.91	1.55	1.30	1.28	6.40	2.10	5.79	0.68	5.93	0.25	0.48	28.62
1918	1.15	**2.38**	0.40	1.57	3.25	2.73	2.02	3.44	8.01	8.15	2.11	1.59	36.80
1919	1.41	0.98	2.37	3.05	3.02	2.10	1.37	3.08	2.78	4.85	2.80	1.25	29.06
1920	1.56	1.81	1.90	4.46	1.30	3.00	4.90	2.44	1.74	0.93	4.75	5.67	34.46
Av. 7 yrs.	1.60	1.54	1.51	2.31	2.08	3.56	3.62	3.92	3.20	3.34	2.10	2.13	30.91

RAINFALL AT NORTHFIELD, VT. Elevation, 876 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	1.75	1.56	3.48	5.05	0.90	2.85	4.22	3.14	2.04	1.00	2.90	1.19	30.08
1915	2.56	3.32	0.25	1.06	1.56	3.16	5.22	4.55	1.36	1.72	1.43	2.76	28.95
1916	1.14	2.71	1.31	1.94	3.83	4.47	4.02	1.94	3.00	2.09	3.13	1.78	31.36
1917	3.20	0.74	2.18	2.05	2.28	5.40	3.08	3.13	1.37	5.82	1.04	1.84	32.13
1918	1.85	2.05	1.43	2.28	3.13	3.16	1.77	6.71	5.08	5.21	2.25	2.24	37.16
1919	1.02	1.47	5.42	1.39	4.26	2.47	1.54	2.40	2.88	3.47	2.36	1.29	29.97
1920	1.24	2.05	2.52	5.12	1.28	3.60	3.70	2.19	5.56	1.80	4.20	4.35	37.61
Av. 33 yrs.	2.31	2.26	2.65	2.23	2.87	3.11	3.43	3.54	3.01	2.73	2.53	2.45	33.12

RAINFALL AT NORWICH, VT. Elevation, 550 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	1.94	2.54	3.65	6.18	1.15	2.20	3.24	3.79	1.02	1.39	2.92	2.09	32.11
1915	3.32	3.10	0.10	1.95	1.04	2.42	9.54	5.24	2.02	1.74	2.31	3.18	35.96
1916	1.59	3.17	4.10	3.34	4.00	5.59	4.07	2.66	5.41	1.36	2.63	2.07	39.99
1917	3.64	1.24	2.20	2.14	2.63	5.15	1.88	4.18	1.05	5.41	0.64	2.85	33.01
1918	1.95	2.95	2.02	2.47	4.09	3.50	1.71	4.05	6.26	3.12	2.77	2.65	37.54
Av. 26 yrs.	2.73	2.78	3.04	2.54	3.30	3.38	3.75	3.46	3.54	2.94	2.50	2.86	36.82

RAINFALL AT READSBORO, VT. Elevation, 1 220 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1915	**3.68**	1.85	0.00	**1.84**	**1.12**	0.80	7.88	5.98	2.02	1.12	2.47	6.44	35.20
1916	3.33	4.83	4.87	3.50	4.03	5.02	5.98	1.82	4.71	2.20	4.80	3.36	48.45
1917	4.17	3.25	3.89	2.58	4.89	4.54	3.49	4.49	0.89	6.57	1.10	3.23	43.09
1918	3.07	3.77	3.07	3.20	4.24	4.61	3.50	2.68	7.41	3.08	2.81	4.51	45.95
1919	2.83	2.42	5.75	2.71	9.68	4.30	3.35	8.21	6.91	5.75	6.65	2.06	60.62
1920	2.20	3.94	3.81	7.32	3.19	7.81	3.55	4.81	4.60	4.66	6.32	6.30	58.51
Av. 6 yrs.	3.21	3.34	3.57	3.53	4.53	4.51	4.63	4.66	4.42	3.90	4.02	4.32	48.64

RAINFALL AT RUTLAND, VT. Elevation, 562 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1917	2.29	1.65	1.50	1.74	1.70	3.76	2.17	4.00	1.12	5.79	0.42	1.32	27.46
1918	2.07	2.13	1.44	1.94	4.40	3.85	2.93	2.48	6.76	3.68	2.46	2.43	36.57
1919	2.19	1.14	3.07	1.77	4.20	3.19	2.92	3.11	5.80	4.40	3.71	1.02	36.52
1920	1.52	1.64	2.48	5.72	1.77	2.30	4.48	3.62	3.07	4.29	4.83	3.27	38.99
Av. 4 yrs.	2.02	1.64	2.12	2.79	3.02	3.28	3.12	3.30	4.19	4.54	2.86	2.01	34.89

RAINFALL AT RYEGATE (EAST), VT. Elevation, 480 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	**1.22**	**1.82**	**4.83**	4.88	0.50	1.32	3.69	4.36	1.87	0.79	2.67	0.52	28.47
1915	1.44	3.12	0.14	1.33	1.75	1.43	7.39	5.48	2.55	1.49	1.70	3.09	30.91
1916	2.19	2.55	1.80	2.27	3.66	4.44	3.01	2.71	3.96	0.97	3.83	2.41	33.80
1917	3.25	1.52	2.04	2.96	2.11	7.04	2.20	7.65	1.37	5.80	0.90	1.84	38.68
1918	2.21	3.28	1.71	1.31	2.97	2.73	3.36	4.11	6.92	6.34	1.48	2.60	39.02
1919	2.16	1.83	3.58	2.28	3.14	1.95	1.24	2.11	3.81	4.11	3.80	1.38	31.39
1920	2.33	3.64	2.58	5.71	2.08	2.00	3.84	4.33	4.67	2.77	3.67	4.87	42.49
Av. 7 yrs.	2.11	2.54	2.38	2.96	2.32	2.99	3.53	4.39	3.59	3.18	2.58	2.39	34.96

RAINFALL AT SOMERSET, VT. Elevation, 2 096 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.44	3.22	4.55	6.10	2.35	3.36	3.92	4.64	0.91	2.82	2.94	3.25	41.50
1915	8.01	5.95	0.45	3.09	1.89	2.79	12.19	7.33	3.49	2.92	2.32	7.10	57.53
1916	4.00	5.18	4.71	4.70	3.94	4.40	4.46	2.20	5.22	2.52	5.56	3.80	50.69
1917	4.70	3.54	4.70	2.05	4.89	4.57	4.01	6.83	1.21	8.26	0.91	3.63	49.30
1918	2.38	5.33	2.79	3.04	4.19	4.12	2.30	3.73	6.10	4.27	2.32	4.20	44.77
1919	3.52	3.16	6.11	2.22	6.36	1.87	4.37	4.23	6.24	5.77	5.05	2.24	51.14
1920	2.56	6.93	4.28	7.49	1.94	6.70	3.96	4.55	4.11	6.08	9.41	5.56	63.57
Av. 9 yrs.	4.28	4.52	4.50	4.05	4.16	3.52	4.76	4.47	3.97	5.09	4.28	4.38	51.98

RAINFALL AT ST. JOHNSBURY, VT. Elevation, 711 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	1.80	2.00	2.59	4.47	0.50	3.09	4.87	4.98	2.41	0.89	2.22	1.24	31.06
1915	1.98	3.47	0.30	1.98	2.01	2.79	6.38	4.67	3.22	1.48	1.79	3.03	33.10
1916	1.93	2.59	1.52	1.68	3.48	4.36	2.02	4.62	5.55	1.65	2.94	1.80	34.14
1917	2.84	1.21	2.13	2.29	1.82	6.13	3.10	7.86	1.61	5.63	1.04	1.77	37.43
1918	2.46	2.85	1.78	1.48	3.32	3.05	1.82	3.62	6.30	7.60	1.99	2.79	39.06
1919	1.93	1.71	2.74	2.53	3.01	2.82	0.96	3.92	2.59	4.88	3.10	1.28	31.47
1920	1.59	2.70	3.14	6.15	1.67	3.14	5.38	1.73	7.38	2.32	3.60	5.12	43.92
Av. 27 yrs.	2.18	2.20	2.70	2.43	2.94	3.30	4.06	4.14	3.72	2.78	2.51	2.50	35.46

RAINFALL AT VERNON, VT. Elevation, 310 feet.
(Connecticut River Power Co.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.67	0.90	2.77	5.43	1.73	2.33	0.79	4.24	0.21	1.69	1.83	2.03	26.62
1915	4.48	4.78	0.09	2.63	0.79	1.04	6.97	7.40	2.21	2.20	2.52	4.58	39.69
1916	1.46	3.29	1.74	2.44	2.86	4.30	4.07	3.55	6.84	1.40	3.45	1.83	37.23
1917	3.37	1.92	2.63	1.52	3.10	4.48	1.16	3.39	0.64	5.07	0.60	1.71	29.59
1918	1.83	2.94	1.61	2.87	2.76	3.29	0.90	3.13	6.70	1.15	2.34	3.46	32.98
1919	1.29	2.14	4.00	1.69	6.76	0.82	2.88	3.50	4.19	2.30	4.15	1.47	35.19
1920	1.35	2.15	2.09	6.34	2.03	3.93	2.51	4.78	6.55	1.09	2.82	3.96	39.60
Av. 23 yrs.	3.55	3.22	3.32	3.04	3.18	3.31	4.15	4.45	4.08	3.19	3.62	3.21	42.32

RAINFALL AT VICTORY, VT. Elevation, 800± feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1917	3.00	1.11	1.37	3.31	3.65	8.21	3.10	7.92	2.50	5.23	2.18	1.34	42.92
1918	1.57	3.14	2.44	1.86	4.97	4.97	3.80	3.90	8.11	9.47	2.09	2.63	48.95
1919	1.03	2.66	2.21	2.02	2.34	3.12	1.49	3.61	4.11	7.92	3.02	0.69	34.22
1920	1.62	1.86	2.15	4.83	0.84	2.13	6.64	3.85	7.30	1.52	2.29	4.19	39.22
Av. 4 yrs.	1.80	2.19	2.04	3.01	2.95	4.61	3.76	4.82	5.50	6.04	2.40	2.21	41.33

RAINFALL AT WELLS, VT. Elevation, 750 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.09	1.78	4.31	7.42	1.06	2.55	2.46	4.96	1.13	1.34	1.57	1.06	31.73
1915	3.38	5.48	0.37	2.00	1.98	2 30	6.69	2.80	2.82	3.37	2.06	4.45	37.70
1916	1.45	3.20	3.46	2.25	1.95	2.83	3.84	2.60	3.85	2.47	3.84	3.17	34.91
1917	2.47	1.49	2.22	1.83	2.05	4.04	2.70	4.36	1.06	6.15	1.28	1.98	31.63
1918	2.78	2.19	1.34	2.26	4.21	3.80	3.91	2.18	7.55	3.19	2.00	2.51	37.92
1919	2.37	1.35	3.77	2.02	...	...	...	...	...	...	...	1.24	....
1920	2.60	2.50	3.60	3.70	1.21	...	...	...	...	...	...	...	....
Av. 27 yrs.	2.57	2.72	3.09	2.42	3.32	3.32	3.96	4.00	3.83	3.12	2.61	2.71	37.67

RAINFALL AT WELLS RIVER, VT. Elevation, 750± feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1916	...	...	...	...	...	...	...	...	3.82	2.48	3.86	...	....
1917	...	...	2.28	2.58	3.18	...	...	...	2.18	4.12	...	...	....
1918	2.42	2.18	1.40	2.86	2.64	3.26	3.30	2.74	5.46	5.50	3.68	2.82	38.26
1919	2.86	2.59	3.50	3.00	3.46	3.90	3.41	3.18	4.26	3.77	3.98	1.54	39.45

(Gage changed to Woodsville, N. H., October 1, 1919.)

RAINFALL AT WHITE RIVER JCT., VT. Elevation, 400 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	**2.16**	**1.82**	**4.30**	4.82	1.17	1.26	2.16	3.93	0.44	0.68	2.23	1.85	26.82
1915	3.20	2.43	0.05	1.76	0.99	4.13	8.75	4.12	1.14	1.74	1.70	4.13	34.14
1916	1.52	3.42	3.26	3.48	3.22	4.06	3.59	1.93	5.29	0.99	2.67	1.52	34.95
1917	3.11	1.67	2.66	2.17	2.35	6.28	2.44	2.98	0.72	5.11	0.68	2.81	32.98
1918	2.79	2.25	1.95	2.51	3.00	3.68	1.35	3.56	5.92	2.43	1.80	2.33	33.57
1919	1.88	1.42	4.25	1.65	4.95	1.04	2.37	3.33	5.92	4.10	4.35	1.12	36.38
1920	1.41	2.86	2.32	5.97	2.62	2.99	3.90	2.14	2.68	3.47	4.66	4.64	39.66
Av. 7 yrs.	2.29	2.27	2.68	3.19	2.61	3.35	3.51	3.15	3.16	2.65	2.58	2.63	34.07

RAINFALL AT WILMINGTON, VT. Elevation, 1 500 feet.
(Mountain Mills.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1915	...	...	...	...	...	...	5.85	5.01	2.47	3.04	2.39	...	....
1916	...	...	...	...	...	...	4.02	2.50	3.65	2.71	4.52	3.65	....
1917	3.79	3.84	4.00	1.93	5.77	5.04	2.38	7.36	1.07	5.91	0.94	3.69	45.72
1918	4.35	4.43	3.49	3.24	3.41	4.75	1.61	2.93	7.20	2.71	2.37	4.07	44.56
1919	2.76	2.61	6.40	2.24	7.69	1.76	2.68	4.10	6.36	4.39	5.61	2.34	48.94
1920	2.23	6.03	3.82	1.06	2.34	6.06	3.08	2.94	4.34	4.67	7.83	7.00	51.40
Av. 4 yrs.	1.88	2.41	2.54	1.21	2.74	2.52	1.39	2.47	2.71	2.53	2.39	2.44	27.23

RAINFALL AT WOODSTOCK, VT. Elevation, 700 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.02	1.92	4.24	6.23	1.20	2.38	6.12	**4.58**	**1.17**	0.97	2.30	2.70	35.83
1915	2.66	4.17	0.09	1.95	0.69	2.48	11.11	7.49	2.38	2.61	2.52	3.55	41.70
1916	1.79	3.14	3.15	3.26	3.50	6.13	2.66	1.48	5.93	1.75	3.21	2.12	38.12
1917	3.05	1.09	1.79	1.66	4.19	5.69	1.83	2.26	0.98	5.49	0.89	2.26	31.18
1918	2.98	2.08	2.07	1.65	3.13	3.73	1.36	2.31	7.14	2.52	3.29	1.72	33.98
1919	1.57	1.40	4.83	1.67	5.46	2.31	2.13	3.67	4.99	3.91	4.56	1.46	37.96
1920	1.71	3.88	4.76	6.47	1.77	3.20	2.88	3.22	5.59	0.82	5.37	5.68	45.35
Av. 53 yrs.	3.00	2.79	3.08	2.67	3.44	3.29	3.95	3.38	3.40	3.08	3.06	2.96	38.10

MASSACHUSETTS.

RAINFALL AT ACUSHNET, MASS. Elevation, 50 feet.
(New Bedford Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.81	2.90	4.45	5.05	3.19	0.90	4.72	2.52	0.90	2.90	3.21	4.82	39.37
1915	11.93	5.71	0.06	2.75	2.86	1.44	2.55	7.96	1.96	3.24	2.00	5.82	48.28
1916	2.05	5.65	5.64	4.80	5.28	4.50	11.79	1.96	1.93	3.28	3.18	3.14	53.20
1917	2.96	2.83	6.78	2.50	5.39	4.39	1.02	4.04	2.56	4.41	0.14	2.29	39.31
1918	3.56	2.68	1.74	4.36	1.70	3.42	2.48	1.73	4.09	0.94	2.67	4.84	34.21
1919	5.20	3.97	4.45	3.58	4.83	2.85	4.93	7.34	4.84	2.21	4.62	2.56	51.38
1920	3.31	3.51	3.45	4.62	5.29	7.65	2.06	2.98	1.32	1.57	4.49	2.33	42.58
Av. 43 yrs.	4.48	4.33	4.74	4.09	3.87	3.01	3.32	3.84	3.38	4.27	4.20	4.47	48.00

RAINFALL AT AGAWAM, MASS. Elevation, 410 feet.
(Provin Mt. Res., Springfield Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.19	4.09	4.99	4.90	3.65	2.35	3.08	2.68	0.31	2.41	3.88	3.39	38.92
1915	6.56	4.82	0.17	3.04	1.82	2.79	6.45	8.06	3.41	2.55	3.49	6.67	49.83
1916	1.52	6.12	3.04	3.26	3.83	4.40	5.06	2.62	4.36	1.33	3.62	3.42	42.58
1917	4.16	3.57	4.21	2.34	4.47	4.80	5.52	4.50	0.64	7.95	0.91	3.37	46.44
1918	2.29	3.28	2.10	2.64	2.32	3.69	1.81	4.11	6.21	1.12	2.15	3.57	35.29
1919	2.19	4.59	5.10	2.87	6.78	1.47	4.21	2.72	5.57	2.06	6.69	2.23	46.48
1920	2.43	3.46	4.36	6.12	3.09	7.85	2.97	5.42	8.78	0.82	6.53	6.78	58.61
Av. 7 yrs.	3.19	4.28	3.42	3.59	3.71	3.91	4.16	4.30	4.18	2.61	3.90	4.20	45.45

RAINFALL AT AMHERST, MASS. Elevation, 222 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.72	3.36	5.52	6.59	3.56	2.32	3.53	5.11	0.52	2.09	2.62	2.89	41.83
1915	6.52	7.02	0.12	3.99	1.20	3.00	9.13	8.28	1.37	2.89	2.20	5.86	51.58
1916	2.56	5.27	3.97	3.69	3.21	4.97	6.85	2.49	5.08	1.01	3.29	2.85	45.24
1917	3.30	1.98	4.08	1.83	4.13	5.27	3.36	7.06	2.42	6.60	0.63	2.56	43.22
1918	4.11	2.99	2.91	2.78	2.47	4.01	1.84	2.22	7.00	1.32	2.87	2.95	37.47
1919	2.02	2.80	4.22	2.37	6.20	1.09	4.17	4.80	4.45	1.81	6.20	1.48	41.61
1920	2.74	4.45	2.90	4.71	3.65	6.26	2.06	3.62	6.74	1.54	5.62	6.02	50.31
Av. 85 yrs.	3.38	3.27	3.60	3.18	3.80	3.61	4.40	4.36	3.66	3.71	3.62	3.58	44.17

RAINFALL AT ASHBY, MASS. Elevation, 1 000 feet.

(Watatic Pond, Fitchburg Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1915	5.42	3.51	0.06	2.36	1.90	1.44	10.81	7.62	1.44	3.02	3.61	4.51	45.70
1916	1.11	4.55	2.26	3.92	4.60	7.15	4.52	3.36	3.80	1.67	3.29	2.70	42.93
1917	2.32	2.44	3.85	1.89	4.33	6.43	3.23	5.16	1.08	6.79	1.93	2.04	41.49
1918	3.21	2.25	2.24	2.04	2.35	4.30	2.06	1.94	6.94	0.99	3.44	2.00	33.76
1919	3.74	3.44	5.62	2.28	6.82	1.39	3.10	2.55	6.94	2.95	7.54	1.77	48.14
1920	2.15	4.27	3.88	6.33	3.71	5.10	2.53	3.72	7.15	1.87	5.58	7.32	53.61
Av. 6 yrs.	2.99	3.41	2.99	3.14	3.95	4.30	4.37	4.06	4.56	2.88	4.23	3.39	44.27

RAINFALL AT ASHLAND, MASS. Elevation, 250 feet.

(Ashland Reservoir, Metropolitan Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.58	4.06	4.45	6.59	3.10	1.66	2.99	4.00	0.86	1.60	2.38	3.24	38.51
1915	6.63	3.44	0.06	2.42	1.94	3.66	7.51	5.40	1.29	2.74	2.65	4.67	42.41
1916	1.54	5.60	4.58	4.06	3.28	4.74	4.94	1.77	1.50	1.47	2.09	3.20	38.77
1917	3.49	2.64	4.76	2.62	4.70	4.05	1.06	5.74	1.61	5.51	1.26	2.66	40.10
1918	3.30	3.35	2.54	4.34	1.28	3.26	4.28	1.55	8.70	1.04	2.40	3.66	39.70
1919	3.34	3.12	4.22	2.72	3.79	1.39	4.66	3.68	5.06	2.13	5.11	1.85	41.07
1920	3.17	6.47	3.99	5.01	3.32	5.67	2.33	2.29	3.29	1.20	5.23	4.74	46.71
Av. 31 yrs.	3.86	4.15	4.32	3.66	3.36	3.07	3.46	3.54	3.58	3.53	3.41	3.77	43.71

RAINFALL AT ATHOL, MASS. Elevation, 1 000 feet.

(Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1912	1.94	1.64	5.08	4.22	4.38	1.30	1.81	2.00	3.01	1.94	2.38	4.31	34.01
1913	2.67	6.61	2.95	3.89	0.71	2.11	2.60	2.58	5.37	2.31	2.21	3.34	37.35
1914	3.26	2.10	3.85	4.71	2.76	2.26	2.12	4.71	0.44	1.80	2.52	1.96	32.49
1915	4.64	1.25	0.05	3.25	1.47	2.29	11.10	5.07	1.26	2.72	1.98	5.28	40.36
1916	1.35	4.26	3.14	2.51	3.14	4.66	7.15	3.53	7.23	1.27	2.61	1.99	42.84
1917	2.11	0.90	3.51	1.41	3.87	3.89	2.70	3.35	0.68	5.19	1.08	4.00	32.69
1918	0.53	1.75	0.42	3.09	2.47	5.05	2.44	2.58	7.32	1.12	2.45	2.23	31.45
1919	2.52	0.84	2.98	2.22	5.97	0.91	2.53	3.30	5.37	2.37	4.64	0.60	34.25
1920	2.09	3.35	0.26	3.30	3.46	4.97	1.59	6.27	2.66	0.93	2.66	6.27	37.81
Av. 9 yrs.	2.35	2.52	2.47	3.18	3.14	3.05	3.78	3.71	3.71	2.18	2.50	3.33	35.92

RAINFALL AT ATTLEBORO, MASS. Elevation, 100 feet.

(Water Works Pumping Station.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1910	4.85	3.86	1.63	2.79	3.25	3.90	2.43	3.63	1.95	1.70	5.24	2.17	37.40
1914	4.55	3.29	3.59	4.81	2.43	0.30	3.46	2.47	0.68	2.75	3.17	3.05	34.55
1915	7.02	2.46	0.07	1.22	1.89	2.16	9.34	5.67	0.83	1.66	2.61	5.23	40.16
1916	1.41	4.71	1.40	3.28	5.28	4.83	7.63	2.19	1.19	2.41	1.69	2.26	38.28
1917	3.22	1.37	4.89	2.35	4.64	4.87	0.87	5.68	2.09	6.29	0.62	2.04	38.93
1918	3.55	2.96	1.94	5.33	0.93	3.39	3.76	2.27	9.38	0.31	2.06	3.66	39.54
1919	4.18	3.33	4.88	3.07	4.40	1.44	4.40	5.31	5.48	1.58	4.22	2.27	44.56
1920	2.63	4.89	4.31	5.13	4.31	5.72	2.00	2.73	1.61	1.21	4.67	4.01	43.22
Av. 20 yrs.	3.88	4.11	4.02	3.85	3.43	3.29	4.03	3.44	4.42	2.79	3.35	3.56	44.17

RAINFALL AT BARNSTABLE, MASS. Elevation, 20 feet.
(Hyannis.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.46	4.04	4.51	4.11	4.79	1.52	4.85	3.70	1.00	2.35	2.43	5.46	41.22
1915	9.15	4.34	**0.09**	**2.92**	**2.50**	**2.72**	**0.77**	**4.69**	**1.36**	**4.60**	**2.44**	**4.06**	39.64
1916	**1.38**	**4.21**	**4.58**	**4.09**	**4.71**	8.10	5.20	0.66	3.63	1.82	1.32	4.37	44.07
1917	2.73	3.33	5.98	4.47	4.20	6.65	2.84	2.46	3.10	4.56	0.57	2.55	43.44
1918	3.38	2.41	2.99	3.54	1.10	3.80	2.08	1.91	1.93	1.24	1.67	3.95	30.00
1919	5.79	3.29	4.35	2.82	3.66	2.58	7.44	7.83	6.79	3.23	4.28	3.10	55.16
1920	2.67	7.87	6.05	4.88	4.58	5.45	1.93	2.67	2.27	3.22	4.10	3.88	49.57
Av. 29 yrs.	4.11	3.73	4.48	3.66	3.56	3.10	2.93	3.47	2.87	3.52	3.79	4.10	43.32

RAINFALL AT BEDFORD, MASS. Elevation, 170 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.04	2.45	3.55	4.17	2.28	1.85	2.38	4.78	0.11	1.60	2.03	2.85	31.09
1915	4.45	3.62	T	1.59	1.56	1.51	10.69	5.36	1.24	2.87	2.65	4.60	40.14
1916	1.47	5.15	2.70	4.17	3.24	5.11	2.55	2.42	2.13	0.93	2.25	2.47	34.59
1917	2.41	2.24	3.29	2.51	4.07	4.46	1.41	4.24	1.74	4.89	0.85	2.46	34.57
1918	2.34	2.45	2.52	2.47	2.31	3.03	3.39	2.48	7.74	1.16	2.38	2.82	35.09
1919	3.57	3.27	3.94	2.64	5.45	1.08	3.45	3.85	5.26	2.37	6.21	1.65	42.74
1920	2.48	6.50	3.82	5.06	3.17	5.34	1.57	1.91	3.83	1.10	4.14	5.40	44.32
Av. 28 yrs.	3.09	3.36	3.47	3.28	3.19	2.98	3.28	3.51	3.47	3.01	3.07	3.25	38.96

RAINFALL AT BILLERICA (NORTH), MASS. Elevation, 100 feet.
(Talbot Chemical Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1889	5.10	1.56	1.62	3.81	5.10	4.92	7.18	4.14	3.17	3.38	6.78	2.30	49.06
1890	2.44	3.80	7.96	2.36	5.95	3.14	1.86	5.66	3.57	7.75	0.80	2.85	48.14
1891	4.80	3.15	5.40	2.60	2.53	2.42	4.00	1.90	2.10	2.32	3.60	3.27	38.09
1892	4.00	2.55	3.20	0.50	5.16	5.47	1.00	5.74	3.03	2.35	6.19	1.34	40.53
1893	2.53	7.15	2.29	2.46	7.01	3.16	2.24	5.88	3.17	3.50	1.77	4.00	45.16
1894	2.89	3.05	0.92	2.45	4.42	1.22	5.65	1.45	2.70	5.24	2.41	3.60	36.00
1895	2.90	1.00	2.34	3.48	1.62	3.47	1.53	2.83	1.99	7.74	8.99	2.35	40.24
1896	2.13	4.76	4.94	1.25	1.80	2.05	2.95	2.58	7.75	3.20	3.68	2.30	39.39
1897	3.60	2.65	4.05	2.85	3.45	6.10	3.75	5.60	3.30	0.40	6.20	4.35	46.30
1898	5.10	5.16	1.25	5.20	2.73	4.56	2.47	7.81	2.00	6.13	6.30	3.30	52.01
1899	2.95	3.85	7.00	3.05	2.00	2.92	2.80	1.98	4.30	1.35	4.07	0.82	37.09
1900	4.40	9.18	6.05	1.25	3.70	2.40	2.38	2.54	3.55	2.65	5.92	2.62	46.64
1901	1.20	1.15	4.65	7.20	6.95	1.05	5.90	3.00	2.30	4.60	2.45	6.65	47.10
1902	2.35	6.20	4.50	5.20	1.13	1.55	3.35	3.85	2.00	6.62	0.90	6.00	43.65
1903	2.70	3.30	6.05	3.10	0.50	9.35	2.25	2.75	1.35	4.10	1.68	2.70	39.83
1904	2.60	2.85	2.72	10.69	2.60	3.38	5.57	3.02	5.09	1.54	1.40	2.00	43.46
1905	6.78	1.15	1.60	2.55	0.93	5.16	1.42	3.88	7.20	1.77	0.75	3.70	36.89
1906	2.25	0.60	2.45	3.40	5.97	**4.71**	**5.43**	**2.56**	**1.44**	**2.24**	3.70	3.40	38.15
1907	3.47	1.75	2.40	4.60	3.15	2.95	5.39	0.95	7.50	4.35	5.80	4.85	47.16
1908	3.45	3.07	**2.53**	0.50	4.65	**0.80**	**4.68**	**4.38**	**0.43**	**2.55**	0.00	3.64	30.68
Av. 20 yrs.	3.38	3.40	3.70	3.42	3.57	3.54	3.59	3.62	3.40	3.69	3.67	3.30	42.28

RAINFALL AT BOSTON, MASS. Elevation, 185 feet.
(West Roxbury.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1912	3.03	2.38	4.71	3.52	3.90	0.26	4.81	2.94	1.55	1.48	2.94	5.02	36.54
1913	2.88	2.66	5.00	4.70	2.95	1.68	2.82	6.41	2.72	6.96	2.45	3.29	44.52
1914	3.71	3.31	3.74	5.74	2.93	1.40	2.69	3.54	0.27	1.64	2 65	3.73	35.35
1915	6.79	3.17	T	2.93	1.39	1.74	10.39	5.89	0.79	2.80	2.90	5.57	44.36
1916	1.39	5.02	3.48	4.30	3.38	4.94	4.82	2.69	1.39	1.11	1.94	3.40	37.86
1917	3.03	2.43	4.39	2.50	5.22	4.21	0.73	10.65	2.18	5.96	0.64	2.88	44.82
1918	3.19	2.43	3.32	4.66	1.45	2.42	3.83	1.19	9.50	0.96	1.91	3.46	38.32
1919	3.43	2.97	4.86	2.79	4.35	1.18	4.48	6.02	6.48	2.51	4.84	1.54	45.45
1920	3.02	6.65	3.83	5.75	4.86	6.29	2.88	3.76	3.00	1.75	5.67	4.00	51.46
Av. 9 yrs.	3.38	3.45	3.71	4.10	3.38	2.68	4.16	4.79	3.10	2.80	2.88	3.65	42.08

RAINFALL AT BOSTON, MASS. Elevation, 90 feet.

(Brookline Pumping Station, West Roxbury.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1913	...	...	...	...	...	...	...	...	...	7.43	1.36	3.29	....
1914	3.71	3.27	3.94	5.56	2.80	1.37	2.85	3.60	0.23	1.66	2.83	3.63	35.45
1915	7.03	3.32	T	3.26	1.84	1.70	9.65	5.55	0.79	2.74	2.27	5.05	43.20
1916	1.34	4.92	3.69	4.57	3.17	5.62	4.72	2.92	1.52	1.20	1.86	2.68	38.21
1917	3.13	2.00	4.00	2.64	5.14	4.16	0.80	10.94	2.20	5.71	0.83	1.53	43.08
1918	2.76	3.21	1.62	4.80	1.34	2.49	3.51	1.40	9.20	1.02	1.77	3.29	36.41
1919	3.47	3.12	4.49	2.69	4.64	1.27	5.36	5.10	6.81	2.61	5.14	1.69	46.39
1920	3.43	7.38	3.41	5.48	4.64	6.32	2.69	4.27	3.45	1.16	5.74	3.95	51.92
Av. 7 yrs.	3.55	3.89	3.02	4.14	3.37	3.28	4.23	4.83	3.46	2.30	2.92	3.11	42.10

RAINFALL AT BOSTON, MASS. Elevation, 60 feet.

(Blue Hill Observatory, Valley Station, Readville.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1888	...	...	...	...	...	...	...	6.26	8.82	4.75	9.70	5.50	....
1889	6.81	1.92	2.36	3.92	4.47	5.17	8.47	3.79	4.61	4.98	5.64	2.25	54.39
1890	2.53	2.40	7.64	3.10	5.58	1.90	1.55	2.82	6.80	8.06	1.11	5.24	48.73
1891	6.91	4.97	4.85	2.91	2.12	3.84	3.36	4.70	3.14	6.06	2.56	4.04	49.46
1892	5.06	2.46	3.47	0.82	5.16	3.26	3.51	5.15	2.06	2.23	5.50	1.24	39.92
1893	2.62	6.32	4.17	2.84	4.30	2.20	2.62	6.75	1.67	4.32	2.16	5.01	44.98
1894	3.37	3.78	1.02	2.84	3.14	0.77	2.67	1.34	2.64	6.27	4.32	4.41	36.57
1895	4.13	0.83	3.00	4.99	2.31	1.30	3.21	3.34	2.76	7.61	8.48	2.66	44.62
1896	2.48	4.44	6.09	1.29	2.87	3.51	2.78	2.60	9.03	4.06	3.96	1.78	44.89
1897	3.50	2.31	2.78	3.31	4.74	3.49	4.32	5.31	2.34	0.64	7.00	4.07	43.81
1898	3.90	7.00	2.37	5.84	3.88	2.47	6.20	6.05	2.44	7.86	7.03	1.97	57.01
1899	5.17	4.53	5.67	1.62	1.05	2.23	4.52	1.33	6.34	2.53	2.42	1.91	39.32
1900	4.39	7.37	4.94	2.20	5.30	2.51	2.83	1.68	4.42	4.10	5.48	2.67	47.89
1901	2.10	0.79	7.43	7.27	5.92	1.52	6.33	3.00	3.72	3.75	3.39	8.12	53.34
1902	1.91	5.04	6.08	3.07	1.82	3.22	2.85	2.26	3.01	4.73	1.44	6.65	42.08
1903	4.36	4.14	7.45	3.96	0.81	6.61	3.56	4.57	1.83	5.08	1.42	3.23	47.02
1904	5.90	2.91	3.10	9.35	2.50	3.19	2.23	1.99	6.03	2.64	2.39	2.64	44.87
1905	3.56	1.99	2.72	3.08	1.65	4.68	1.97	3.09	5.21	1.41	2.10	3.82	35.28
1906	3.00	3.17	6.17	2.36	5.32	1.81	6.06	1.54	3.66	4.69	2.93	3.54	44.25
1907	3.33	2.30	1.92	4.01	3.31	3.32	1.02	1.35	7.84	3.04	6.67	5.33	43.44
1908	3.52	4.19	3.52	1.63	3.90	1.22	4.05	3.91	1.00	4.26	1.15	2.78	35.13
1909	4.29	5.53	4.20	4.37	2.46	3.07	0.86	4.60	4.37	1.30	4.36	3.82	43.23
1910	6.32	4.43	1.82	2.50	1.37	3.80	1.75	1.73	2.06	1.54	5.70	2.61	35.63
1911	3.04	3.12	3.31	2.87	0.86	4.64	4.51	6.66	3.39	2.95	5.68	3.23	44.26
1912	3.78	2.25	5.16	3.87	3.91	0.48	4.17	3.79	1.61	1.54	3.23	5.68	39.47
1913	2.88	3.52	5.25	4.46	2.88	3.02	2.40	2.13	2.56	6.77	2.45	3.47	41.79
1914	4.09	3.57	4.79	5.37	2.83	1.34	3.32	3.99	0.30	1.78	2.91	4.20	38.49
1915	7.15	4.14	0.05	2.06	1.58	1.45	10.26	4.80	0.63	2.75	2.23	5.51	42.61
1916	1.55	6.20	4.47	4.92	3.64	5.11	6.82	2.56	1.60	1.55	1.69	3.56	43.67
1917	3.15	3.04	4.76	3.04	5.54	4.70	1.16	9.35	2.91	6.35	0.58	3.12	47.70
1918	3.34	2.89	3.34	4.11	3.03	2.41	5.40	1.55	9.71	1.16	2.11	4.32	43.37
1919	4.09	3.50	5.11	3.30	5.50	2.40	5.65	6.88	7.03	3.06	5.61	2.44	54.57
1920	3.65	7.11	5.10	6.31	7.32	7.30	2.85	4.98	2.79	2.14	6.36	4.62	60.53
Av. 32 yrs.	3.93	3.81	4.19	3.67	3.47	3.06	3.85	3.77	3.73	3.78	3.75	3.75	44.76

RAINFALL AT BOSTON, MASS. Elevation, 124 feet.

(U. S. Weather Bureau.)*

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1871	0.92	2.63	4.55	3.79	4.34	5.55	3.22	3.08	1.30	5.88	6.42	3.38	45.06
1872	2.11	2.31	4.05	1.31	3.29	4.84	4.00	10.68	6.04	4.85	3.66	3.09	50.23
1873	5.76	3.21	3.76	3.83	5.16	0.54	3.84	6.21	2.91	5.33	8.34	5.64	54.53
1874	4.32	3.41	1.60	7.97	3.71	3.94	3.47	6.67	2.05	1.39	2.85	2.14	43.52
1875	3.68	3.74	5.04	4.92	3.76	7.25	3.93	3.50	3.12	4.99	5.47	0.75	50.15
1876	1.87	4.54	7.19	3.61	2.70	1.72	5.86	1.23	3.84	1.66	11.03	3.71	48.96
1877	3.33	0.45	9.79	4.19	3.38	3.21	2.27	4.49	0.60	8.84	9.62	1.32	51.49
1878	7.60	4.40	5.91	6.14	1.03	2.28	4.58	7.66	3.47	6.76	8.94	6.76	65.53
1879	2.79	4.35	3.90	6.58	0.97	6.24	3.09	6.71	1.84	0.91	2.97	4.22	44.57
1880	3.72	4.11	3.25	2.85	1.63	0.75	6.86	2.90	2.36	3.15	2.30	3.42	37.30
1881	7.21	4.89	9.86	1.66	4.16	7.79	2.96	1.23	2.50	2.84	3.73	3.80	52.63
1882	3.68	4.77	3.35	2.50	6.05	1.03	3.91	1.46	10.93	2.29	1.20	2.65	43.82
1883	3.59	2.74	2.33	2.83	5.11	2.07	2.73	0.39	1.50	6.40	2.08	3.71	35.48
1884	6.27	5.74	4.86	4.76	3.31	4.01	4.25	5.01	0.31	3.17	3.03	4.46	49.18
1885	5.33	3.00	1.15	3.30	4.26	3.70	1.44	7.64	1.70	5.71	5.78	2.09	45.10
1886	7.08	7.04	3.20	1.70	3.08	1.34	1.81	3.64	2.73	3.27	3.59	3.66	42.14
1887	4.86	3.69	3.86	2.62	1.67	1.98	3.59	3.05	0.97	2.53	2.22	2.71	33.75
1888	2.26	2.36	3.32	2.04	5.20	2.69	1.79	6.53	6.77	3.58	4.97	4.38	45.89
1889	4.11	1.54	1.19	3.07	4.15	2.77	5.80	3.95	3.19	3.31	4.91	1.83	39.82
1890	2.00	2.29	5.88	2.29	4.48	2.21	1.93	2.70	5.04	5.63	0.97	3.72	39.14
1891	4.39	3.66	3.94	1.71	1.56	3.06	3.73	3.87	2.29	5.56	2.35	3.58	39.70
1892	4.62	2.15	3.91	0.93	5.15	3.05	2.56	4.87	1.90	2.31	4.45	1.12	37.02
1893	2.56	6.22	2.80	3.13	5.23	2.20	1.72	6.46	1.59	2.94	1.83	5.16	41.84
1894	3.01	3.15	1.01	3.78	4.12	0.80	3.09	3.03	2.14	5.11	3.10	4.28	36.62
1895	3.79	1.11	2.72	3.65	2.71	1.73	2.98	3.24	1.53	6.19	8.07	2.45	40.17
1896	2.25	3.94	5.41	1.56	1.68	2.71	2.90	2.15	6.40	3.15	3.70	1.70	37.55
1897	3.16	2.12	2.79	3.17	4.00	4.46	4.22	3.95	2.38	0.41	6.19	3.92	40.77
1898	3.50	4.81	1.82	6.39	4.33	1.60	4.42	6.38	1.93	7.17	5.32	2.19	49.86
1899	4.19	3.03	5.95	1.29	0.81	2.86	2.52	2.52	5.09	2.40	2.51	1.52	34.69
1900	4.20	6.83	4.60	1.90	5.07	1.85	2.69	2.46	4.62	3.41	4.17	2.25	44 05
1901	1 56	0 66	6.58	7 43	6 31	1 31	5 20	3 25	2.50	3.02	2.41	8.49	48.72
1902	1.65	4.19	5.29	2.87	1.07	1.77	2.88	2.20	2.08	4.36	1.09	4.48	33.93
1903	3.43	3.90	5.95	4.43	0.32	7.19	2.99	3.33	2.43	3.95	1.48	2.57	41.97
1904	4.80	2.49	2.43	9.14	3.38	2.06	1.23	2.19	5.57	2.13	1.70	2.52	39.64
1905	4.09	1.59	2.25	2.14	1.47	5.23	1.00	3.39	5.10	0.82	1.77	3.23	32.08
1906	2.96	2.66	5.45	2.15	4.91	2.57	5.38	1.58	2.64	3.88	2.55	3.96	40.69
1907	2.54	1.88	1.66	3.31	3.12	2.56	1.09	1.10	7.43	2.54	6.02	4.31	37.56
1908	2.47	2.96	2.97	1.70	3.78	1.08	3.17	4.35	0.68	3.70	0.74	2.47	30.07
1909	3.94	4.71	3.28	3.92	2.33	4.45	0.97	3.55	5.15	1.07	4.11	3.19	40.67
1910	4.25	3.44	1.25	2.22	1.02	4.89	1.15	0.98	2.14	1.14	3.75	2.10	28.33
1911	2.28	2.85	2.95	2.28	0.35	3.67	4.65	4.17	2.95	2.27	4.29	3.07	35.78
1912	2.87	2.38	4.18	3.07	4.04	0.27	5.16	1.94	1.67	1.00	2.61	5.36	34.55
1913	2.38	2.99	4.81	4.77	3.22	0.64	2.69	2.86	2.51	6.04	2.15	3.05	38.11
1914	3.26	3.07	4.16	5.87	2.78	1.40	2.64	3.20	0.21	1.54	2.72	3.46	34.31
1915	6.33	3.47	T	1.86	1.64	1.39	8.85	5.63	0.69	2.82	2.14	3.94	38.76
1916	1.23	5.18	3.20	4.51	2.83	5.04	5.67	2.19	1.90	0.94	1.67	3.00	37.36
1917	2.82	2.67	3.73	2.72	4.45	4.05	1.10	7.06	1.91	5.33	0.59	2.56	38.99
1918	3.11	2.30	3.19	3.08	1.99	1.94	2.64	1.56	9.19	0.99	1.20	3.21	34.40
1919	3.62	2.66	4.11	2.33	4.25	1.08	4.63	5.07	5.83	2.13	5.36	1.63	42.70
1920	2.72	5.88	3.72	5.68	5.26	5.78	1.56	2.32	1.90	1.64	5.46	3.89	45.81
Av. 50 yrs.	3.61	3.40	3.88	3.50	3.29	2.97	3.34	3.79	3.15	3.45	3.79	3.32	41.49

* The reliability of these observations was questioned during a period of several years following the year 1886 on account of the elevation of the gage.

RAINFALL AT BOYLSTON, MASS. Elevation, 530 feet.

(Metropolitan Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1896	2.12	7.30	4.44	1.89	2.45	2.53	4.83	2.23	7.60	3.95	2.98	2.31	*44.63
1897	3.39	2.86	4.21	2.63	4.60	4.85	7.06	3.94	2.21	0.92	7.45	6.22	*50.34
1898	7.38	4.04	2.34	4.81	3.37	2.93	3.57	10.72	3.22	6.76	7.50	3.75	*60.39
1899	3.27	5.18	6.83	2.08	1.64	5.49	3.33	3.18	4.63	2.65	2.12	2.10	*42.50
1900	5.02	8.81	6.73	3.02	3.82	3.25	3.80	3.29	3.85	1.87	6.44	3.34	*53.24
1901	1.93	1.20	6.18	9.25	7.05	1.13	6.03	4.62	3.34	3.72	2.84	9.80	57.09
1902	2.50	5.70	5.78	4.61	1.79	2.01	3.41	3.67	4.84	5.72	1.11	7.19	48.33
1903	3.27	4.67	6.58	3.29	0.99	11.83	3.43	4.00	2.66	4.72	2.17	4.13	51.74
1904	4.80	2.72	3.21	8.35	2.58	2.94	3.63	3.67	4.57	1.56	1.73	3.06	42.82
1905	5.98	1.78	3.64	2.83	0.66	5.18	6.07	3.09	7.84	1.90	2.51	3.77	45.25
1906	2.54	3.03	5.56	3.04	6.57	6.24	6.40	2.79	2.64	3.19	2.66	4.18	48.84
1907	3.06	2.27	2.05	3.26	3.11	3.64	2.48	1.61	10.10	5.10	5.99	4.76	47.43
1908	3.48	4.62	3.12	2.27	5.48	1.08	4.01	6.93	1.20	2.37	1.07	3.02	38.65
1909	3.45	6.22	4.65	5.68	2.90	3.10	4.07	3.42	4.72	1.20	2.02	3.64	45.07
1910	5.72	5.12	0.92	2.76	1.67	4.52	1.53	4.13	3.14	1.49	4.10	2.43	37.53
1911	2.93	2.75	3.92	2.56	1.44	2.77	3.14	5.21	3.03	4.46	4.17	3.09	39.47
1912	2.90	2.72	5.94	4.26	5.81	0.33	2.84	2.92	1.81	2.52	4.11	4.79	40.95
1913	3.27	2.66	5.18	4.07	3.86	1.05	2.20	2.27	3.92	6.05	2.48	3.13	40.14
1914	3.85	3.36	4.67	4.82	3.26	1.86	3.28	4.14	0.13	2.19	2.78	3.85	38.19
1915	6.31	3.58	0.04	1.47	1.59	3.69	9.18	7.00	1.10	3.12	2.81	4.48	44.37
1916	1.54	6.04	3.83	3.96	3.49	6.58	5.50	1.73	4.63	1.42	2.88	2.76	44.36
1917	3.37	2.73	4.81	1.80	4.17	4.23	1.47	5.96	1.28	5.27	1.56	2.58	39.23
1918	3.52	3.97	2.26	3.82	1.07	5.25	4.12	2.45	8.80	1.55	2.80	3.47	43.08
1919	2.94	3.36	5.13	2.65	5.23	2.17	4.69	3.89	6.23	2.19	6.06	2.14	46.68
1920	3.07	6.04	4.16	5.59	4.86	6.40	2.85	1.93	6.17	0.53	5.83	6.00	53.43
Av. 25 yrs.	3.74	4.10	4.25	3.79	3.34	3.80	4.12	3.95	4.15	3.06	3.45	4.00	45.75

* South Clinton gage.

From 1896–1900, inclusive, the Metropolitan Water Works maintained a gage at South Clinton in the area subsequently covered by Wachusett Reservoir. After 1900 the gage was removed to Boylston, near the southern shore of the reservoir.

RAINFALL AT BRIDGEWATER, MASS. Elevation, 60 feet.

(State Farm.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	...	...	...	...	...	0.96	4.40	2.72	2.20	2.29	3.67	5.33	....
1915	9.22	3.28	0.03	1.85	2.47	2.95	2.74	5.33	1.97	3.01	2.50	5.24	40.59
1916	1.78	4.37	3.20	4.77	4.79	5.03	10.10	1.57	2.81	2.80	2.76	3.20	47.18
1917	3.61	2.03	5.34	3.76	5.70	5.22	1.64	6.82	3.23	6.53	0.41	3.68	47.97
1918	3.40	3.50	2.58	5.76	0.92	3.04	4.62	1.66	7.08	0.65	2.06	3.66	38.93
1919	4.27	3.65	3.98	3.62	5.02	1.45	6.00	6.96	7.64	2.39	4.30	2.30	51.58
1920	2.71	4.89	4.37	5.18	4.95	6.82	3.45	3.53	3.51	1.80	4.46	3.31	48.98
Av. 6 yrs.	4.17	3.62	3.25	4.16	3.98	4.08	4.76	4.31	4.37	2.86	2.75	3.56	45.87

RAINFALL AT BROCKTON, MASS. Elevation, 200 feet.

(City Hall.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.03	3.26	3.31	4.04	2.48	0.86	3.89	3.65	0.78	1.98	2.71	3.47	33.46
1915	6.49	3.45	T	1.41	2.87	2.51	4.50	4.14	0.74	2.40	2.30	4.67	35.48
1916	1.75	5.25	3.59	3.20	3.77	4.88	6.26	2.66	2.16	2.38	1.76	3.58	41.24
1917	3.00	1.80	3.75	2.34	4.21	4.91	1.28	7.25	2.77	5.96	0.46	2.18	39.91
1918	3.18	2.41	2.45	4.04	2.54	2.46	3.76	1.34	10.27	0.96	2.18	3.51	39.10
1919	3.65	3.44	4.01	3.00	4.33	0.95	5.17	5.70	6.94	2.67	5.29	2.24	47.39
1920	3.11	4.65	4.63	4.81	4.39	6.13	3.49	3.04	2.00	2.85	3.61	3.52	46.23
Av. 27 yrs.	3.29	3.14	3.62	3.46	3.13	2.94	3.49	3.16	3.85	3.32	3.34	3.38	40.12

RAINFALL AT CAMBRIDGE, MASS. Elevation, 75 feet.

(City Hall.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.53	3.79	4.34	6.10	2.63	1.93	2.64	3.35	0.25	0.24	2.72	3.55	35.07
1915	6.33	3.73	T	3.08	2.32	1.57	10.11	6.91	0.74	2.71	2.19	5.09	44.78
1916	1.43	5.42	3.74	4.74	3.13	5.17	4.47	2.54	1.81	1.08	1.79	3.36	38.68
1917	3.14	2.75	4.21	3.01	4.55	4.06	1.14	7.91	1.79	6.41	0.81	2.50	42.28
1918	2.84	2.52	3.54	3.37	2.09	2.28	3.46	1.86	10.23	1.54	1.86	3.65	39.24
1919	3.95	3.27	4.41	2.73	4.45	1.06	4.34	4.76	5.91	2.20	5.68	1.61	44.37
1920	2.82	6.52	3.60	5.47	4.31	6.29	1.45	1.28	2.67	1.58	6.58	4.88	47.45
Av. 21 yrs.	3.49	3.90	3.94	3.98	3.14	3.03	3.37	3.34	3.69	2.67	3.09	3.84	41.48

RAINFALL AT CAMBRIDGE, MASS. Elevation, 40 feet.

(Fresh Pond.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1878	...	...	...	...	...	...	...	...	...	...	...	4.67	....
1879	2.25	2.92	4.26	5.13	1.22	4.58	2.76	5.93	1.50	0.67	2.99	3.76	37.97
1880	2.62	3.49	2.85	1.94	1.44	0.73	6.49	3.48	1.63	2.63	2.25	1.98	31.53
1881	5.03	4.14	6.07	1.83	3.32	6.27	3.41	1.13	2.74	2.85	4.08	3.30	44.17
1882	4.73	4.48	2.49	2.27	4.93	2.73	2.08	1.41	7.80	2.18	1.21	1.87	38.18
1883	2.94	2.85	1.76	2.48	4.10	2.28	2.38	0.34	1.18	5.61	1.96	2.94	30.82
1884	4.81	6.67	4.91	4.22	3.18	3.79	4.56	4.76	0.70	2.90	2.63	4.60	47.73
1885	5.43	2.94	1.06	3.61	3.77	4.10	1.72	5.21	1.78	5.56	9.20	1.82	46.20
1914	3.52	2.60	4.26	5.46	2.63	1.41	2.53	2.57	0.51	1.31	2.54	3.02	32.36
1915	6.43	2.70	0.00	2.79	1.57	5.03	6.50	6.85	1.05	2.04	1.83	3.03	39.82
1916	1.06	4.67	3.28	4.18	2.81	6.19	3.23	2.18	1.14	1.04	1.63	2.62	34.03
1917	2.89	4.06	5.48	3.31	4.38	3.40	0.46	4.76	1.61	5.48	0.90	2.08	38.81
1918	2.61	5.51	3.64	3.98	0.79	2.94	3.95	1.71	8.36	0.47	1.90	3.20	39.06
1919	3.52	2.97	3.02	2.70	4.27	0.67	5.19	4.16	6.06	1.94	5.06	1.61	41.17
1920	2.46	7.50	3.58	4.91	4.02	5.90	1.49	1.01	2.70	1.02	5.38	3.68	43.65
Av. 42 yrs.	3.63	3.78	3.67	3.40	3.35	3.14	3.36	3.46	3.32	3.32	3.43	3.33	41.19

RAINFALL AT CAMBRIDGE, MASS. Elevation, 75 feet.

(Harvard College Observatory.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	1.36	4.31	3.82	5.99	2.74	1.64	2.59	2.85	0.27	1.58	2.73	3.51	33.39
1915	6.50	3.84	0.00	3.21	3.02	1.49	10.34	7.72	1.05	2.21	2.27	5.03	46.68
1916	1.42	5.59	3.10	5.05	3.11	5.20	2.36	2.24	1.20	1.50	0.90	4.00	35.67
1917	3.05	2.45	3.88	2.89	4.81	3.60	0.63	6.22	1.60	6.21	0.64	3.15	39.13
1918	3.32	2.55	3.62	3.20	2.04	2.56	3.59	1.79	9.67	1.14	1.86	3.41	38.75
1919	3.80	3.63	4.47	2.86	4.60	0.97	3.72	3.49	6.72	2.02	5.23	2.15	43.66
1920	3.43	9.44	4.40	5.56	4.33	6.36	1.28	0.53	2.27	2.25	6.08	3.96	49.89
Av. 80 yrs.	3.90	3.64	3.92	3.66	3.42	3.13	3.35	4.17	3.52	3.45	3.89	3.56	43.61

RAINFALL AT CHESTER, MASS. Elevation, 600 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1913	3.69	2.43	6.32	3.65	4.35	0.23	2.24	2.00	3.24	4.61	5.33	2.25	40.34
1914	2.73	2.06	3.81	5.08	3.46	1.66	3.32	2.99	0.40	1.08	2.99	2.65	32.23
1915	5.26	4.44	0.21	2.41	2.02	2.67	8.49	8.68	2.76	3.19	2.71	4.00	46.84
1916	2.00	4.84	3.15	3.11	2.96	4.15	4.23	2.75	4.97	1.32	3.30	3.89	40.67
1917	3.54	2.77	3.59	1.23	3.48	5.50	1.09	0.50	0.63	7.46	1.03	4.85	35.67
1918	3.84	2.84	2.33	3.12	4.02	3.72	2.55	2.70	6.01	1.82	2.49	3.38	38.82
1919	2.59	2.70	4.36	3.16	6.77	2.10	5.15	4.33	4.91	2.40	6.08	2.50	47.05
1920	1.90	4.75	2.40	5.79	1.55	6.98	1.83	6.01	5.58	1.60	5.37	4.63	48.39
Av. 8 yrs.	3.19	3.35	3.27	3.44	3.58	3.38	3.61	3.75	3.56	2.94	3.66	3.52	41.25

RAINFALL AT CHESTNUT HILL RESERVOIR. Elevation, 124 feet.

(Metropolitan Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.96	4.34	4.42	6.19	2.77	1.73	2.77	3.83	0.35	1.71	2.94	3.98	38.99
1915	6.89	3.44	T	2.92	1.48	5.42	6.75	6.39	1.02	2.90	2.38	5.33	44.92
1916	1.87	5.65	4.18	4.74	3.56	6.03	5.19	2.78	1.45	1.27	1.88	3.31	41.91
1917	3.69	2.68	4.81	3.01	5.32	3.82	1.00	7.50	1.98	6.38	1.08	2.35	43.62
1918	3.46	4.04	1.98	4.50	1.17	2.40	3.93	1.68	9.34	1.25	1.88	4.18	39.81
1919	3.16	3.89	5.04	3.09	4.99	1.51	5.08	4.75	6.96	2.55	5.13	2.00	48.15
1920	3.67	7.16	4.16	6.10	4.80	6.26	1.76	1.75	3.12	1.23	6.09	4.48	50.56
Av. 48 yrs.	4.11	4.17	4.14	3.84	3.44	3.18	3.57	3.97	3.50	3.70	3.99	3.64	45.25

RAINFALL AT CLINTON, MASS. Elevation, 370 feet.

(Metropolitan Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	4.17	4.86	5.61	5.29	3.73	2.00	4.02	3.78	0.25	1.65	3.20	3.74	42.30
1915	6.27	3.61	0.06	1.70	1.51	2.92	8.38	5.83	1.01	3.42	2.73	5.12	42.56
1916	1.54	6.37	4.36	3.87	3.30	6.53	5.41	2.14	4.05	1.28	2.86	2.99	44.70
1917	3.40	2.54	4.93	1.64	3.87	4.79	1.28	6.46	1.12	5.74	1.77	2.70	40.24
1918	3.52	3.79	2.63	4.11	1.19	4.00	3.24	2.11	8.35	1.26	2.59	3.21	40.00
1919	2.97	3.63	5.19	2.42	5.78	1.81	6.13	4.08	5.73	2.50	6.79	2.36	49.29
1920	3.39	6.42	5.04	6.10	4.50	6.79	3.81	2.47	6.35	0.52	5.80	6.54	57.73
Av. 19 yrs.	3.66	3.93	4.18	3.81	3.36	4.01	3.82	3.90	4.09	3.07	3.17	3.98	44.98

RAINFALL AT COLRAIN, MASS. Elevation, 500 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1913	3.78	2.45	5.80	2.82	3.93	0.75	1.42	1.81	4.20	5.78	3.76	3.46	39.96
1914	3.10	2.67	4.76	5.68	2.39	1.80	2.86	4.64	0.37	2.23	2.84	3.03	36.37
1915	5.60	4.56	0.13	2.70	1.26	1.37	10.16	13.22	2.48	2.58	3.14	6.37	53.57
1916	1.94	5.92	3.34	3.86	4.18	4.54	4.11	1.59	6.15	1.54	2.38	2.09	41.64
1917	2.74	1.47	2.60	2.06	5.02	6.01	2.47	3.17	0.94	9.06	2.33	2.61	40.48
1918	3.49	3.07	2.74	3.53	2.75	3.63	1.71	2.25	6.55	1.56	2.52	3.55	37.35
1919	2.14	2.72	6.48	2.21	8.50	0.87	3.04	4.14	4.46	3.02	5.73	1.96	45.27
1920	2.83	5.23	4.31	6.70	2.99	6.17	3.21	3.16	7.14	1.25	5.83	5.93	54.75
Av. 8 yrs.	3.20	3.51	3.78	3.69	3.88	3.14	3.62	4.25	4.03	3.38	3.57	3.62	43.67

RAINFALL AT CONCORD, MASS. Elevation, 139 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.60	2.90	4.21	4.63	2.82	1.98	2.33	3.71	0.12	1.73	2.57	3.30	33.90
1915	4.96	3.62	T	2.13	1.75	1.64	11.64	5.74	0.81	3.05	2.61	4.88	42.83
1916	1.35	5.16	3.28	4.43	2.91	4.70	3.74	2.08	2.16	1.05	2.07	2.57	35.50
1917	2.50	2.43	3.56	2.43	4.48	4.67	1.95	3.53	1.55	5.26	0.99	2.93	36.28
1918	3.15	2.25	2.88	2.92	2.43	3.44	3.73	2.14	8.86	0.96	2.59	3.19	38.54
1919	3.63	3.58	4.21	2.58	5.53	1.17	3.74	4.09	4.77	1.84	5.85	1.61	42.60
1920	2.87	6.06	3.85	5.65	2.69	6.04	1.82	1.51	4.42	1.06	5.19	5.36	46.52
Av. 30 yrs.	3.23	3.35	3.52	3.30	3.21	3.10	3.47	3.51	3.51	2.97	3.29	3.31	39.77

RAINFALL AT CUMMINGTON, MASS. Elevation, 1 400 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1903	...	...	...	3.86	0.64	11.06	4.25	5.23	1.72	4.60	1.92	4.17	....
1904	5.10	4.66	4.18	4.27	3.81	5.64	2.74	5.84	4.47	2.59	3.55	3.28	50.13
1905	5.59	1.77	2.93	2.64	1.58	3.70	5.12	5.85	5.75	2.69	2.40	3.50	43.52
1906	1.93	1.81	4.33	2.82	3.67	4.05	2.60	5.13	3.34	3.27	1.96	3.73	38.64
1907	2.57	2.02	2.23	2.19	3.09	4.47	...	...	...	...	...	...	....
1919	...	...	...	...	...	...	...	...	...	2.76	5.83	1.81	....
1920	2.03	4.72	4.64	6.43	1.79	6.00	3.11	3.63	6.89	1.55	6.70	6.08	53.57

RAINFALL AT DALTON, MASS. Elevation, 1 200 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.57	1.78	4.94	5.97	2.75	2.52	3.73	3.32	0.41	1.38	2.14	2.87	34.38
1915	4.03	5.21	0.17	2.29	1.69	3.38	10.86	6.57	2.89	1.95	1.96	6.73	47.73
1916	2.82	3.65	3.95	3.31	2.53	3.71	5.24	2.29	5.73	0.98	4.33	3.02	41.56
1917	3.60	2.47	3.95	1.70	2.38	4.12	2.84	2.02	0.91	6.84	0.62	1.81	33.26
1918	2.98	2.76	3.06	3.13	3.57	3.21	1.96	2.84	6.22	3.39	2.50	3.45	39.07
1919	2.39	2.15	5.15	2.05	7.20	1.20	4.56	4.25	5.02	3.65	5.03	1.92	44.57
1920	2.11	3.95	3.77	6.05	1.49	4.75	2.96	2.79	5.14	1.53	6.11	4.79	45.44
Av. 15 yrs.	3.20	2.97	3.60	3.39	3.50	2.79	3.89	3.59	3.82	3.30	3.11	3.18	40.34

RAINFALL AT DANVERS, MASS. Elevation, 100 feet.
(State Hospital.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1911	...	...	...	...	0.19	4.11	5.14	3.86	2.04	2.65	3.92	3.38	....
1912	2.89	2.82	4.52	4.27	5.37	0.24	4.07	2.18	2.54	1.70	3.30	4.54	38.44
1913	2.30	2.80	3.96	3.97	3.02	1.07	1.45	2.65	2.94	7.04	2.04	3.03	36.27
1914	2.99	3.15	3.45	6.72	2.51	1.30	2.51	2.47	0.17	1.34	2.90	2.45	31.96
1915	5.55	3.39	0.02	1.80	1.15	2.10	10.04	6.09	0.67	2.62	2.16	3.33	38.92
1916	1.16	3.92	2.70	4.49	3.96	5.33	3.85	1.97	2.70	1.11	1.88	2.25	35.32
1917	2.87	2.04	4.05	2.81	4.18	4.81	1.49	3.31	1.43	6.00	1.19	2.02	36.20
1918	2.69	2.79	1.73	4.38	0.85	2.81	2.19	2.16	8.05	0.90	2.21	2.98	33.65
1919	3.51	3.09	3.94	2.80	5.13	0.68	3.25	4.77	5.74	2.20	5 34	1 37	41.82
1920	2.16	5.72	3.27	6.15	4.25	5.57	1.38	1.93	4.30	0.96	5.62	4.29	45.60
Av. 9 yrs.	2.90	3.30	3.07	4.15	3.39	2.66	3.35	3.29	3.19	2.65	2.96	2.67	37.58

RAINFALL AT DUDLEY, MASS. Elevation, 450 feet.
(Stevens Linen Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.32	3.40	4.65	4.12	3.45	1.76	2.84	3.00	0.41	2.07	2.27	2.86	33.15
1915	6.11	5.08	0.10	1.00	2.34	1.77	6.81	6.33	1.63	2.44	1.89	4.53	40.03
1916	1.58	5.54	3.08	3.31	3.33	5.77	4.26	1.38	3.21	2.09	2.54	2.99	39.08
1917	3.22	3.34	4.23	1.62	4.15	5.10	1.45	7.33	1.35	5.93	0.61	2.21	40.54
1918	3.36	3.02	2.71	3.02	2.94	4.67	2.58	2.38	9.70	1.35	2.84	2.69	41.26
1919	3.95	3.28	4.89	3.49	4.52	3.40	3.89	3.55	6.10	2.45	5.22	1.98	46.72
1920	2.74	3.97	4.64	5.05	4.89	6.13	2.57	2.47	3.53	2.68	3.87	5.62	48.16
Av. 29 yrs.	3.31	3.54	4.16	3.30	3.40	3.27	3.43	3.81	3.73	3.20	3.42	3.60	42.17

RAINFALL AT DUDLEY, MASS. Elevation, 705 feet.
(Nichols Academy.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1884	...	...	...	...	...	...	...	3.24	1.06	1.03	2.14	...	....
1885	3.86	4.15	0.45	1.90	3.15	2.02	1.26	5.90	1.75	3.74	4.12	2.72	35.02
1886	3.15	5.12	2.98	1.64	2.77	1.29	4.81	3.04	2.20	1.73	3.66	4.06	36.45
1887	3.50	4.45	3.30	3.15	0.99	2.78	10.49	3.45	1.84	2.39	2.44	3.97	42.75
1888	2.92	3.09	6.77	2.46	5.18	2.31	1.48	5.24	7.57	6.26	5.68	5.33	54.29
1889	2.75	1.31	1.16	2.55	2.74	2.11	3.39	2.09	4.02	4.20	4.10	2.80	33.22
1890	1.69	3.00	6.60	2.10	5.60	1.70	3.57	5.67	5.33	5.19	0.88	3.34	44.67
1891	7.57	4.39	5.32	1.91	1.24	1.94	2.09	2.58	2.45	2.96	1.35	2.40	36.20
1892	4.92	2.06	2.91	0.58	4.74	2.07	2.84	4.74	2.58	1.49	4.77	1.64	35.34
1893	2.04	3.40	3.37	2.65	6.61	1.13	1.12	1.55	**1.86**	3.93	2.04	3.07	32.77
1894	2.01	3.52	1.29	2.73	3.52	0.31	1.61	2.02	2.23	2.32	1.77	3.30	26.63
1895	4.57	1.10	2.12	2.06	1.43	2.91	2.40	2.91	1.20	3.50	4.60	2.30	31.10
1896	1.25	4.50	4.60	0.90	1.80	2.80	5.10	2.55	5.90	2.70	1.60	1.62	35.32
1897	2.77	2.10	3.37	2.14	4.27	3.59	9.95	3.25	1.85	0.75	6.02	4.85	44.91
1898	2.62	3.55	2.37	6.03	2.65	4.15	5.87	5.77	**3.27**	4.80	5.72	**1.75**	43.53
1899	3.95	5.40	4.94	2.26	3.42	**4.03**	**4.11**	**1.84**	3.75	0.80	**2.39**	1.75	38.64
1900	3.53	6.00	6.67	1.63	4.05	...	...	...	...	...	...	...	....
Av. 15 yrs.	3.30	3.40	3.44	**2.34**	3.34	2.34	4.01	3.51	3.19	3.12	3.41	2.99	38.39

RAINFALL AT FALL RIVER, MASS. Elevation, 140 feet.

(Water Works Pumping Station.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.07	3.17	3.97	3.40	2.56	0.87	4.19	3.03	1.24	3.00	2.90	4.84	35.24
1915	9.28	4.11	0.08	1.68	2.05	2.23	2.28	5.33	1.81	3.48	3.04	4.73	40.10
1916	1.47	4.72	3.22	4.29	4.31	3.72	9.85	2.20	1.06	2.11	1.93	4.65	43.53
1917	2.44	2.91	5.08	3.33	4.98	4.79	1.33	3.03	2.89	4.67	0.37	2.03	37.85
1918	3.17	2.86	2.04	4.92	1.90	3.06	2.71	3.44	3.55	0.82	2.00	3.49	33.96
1919	5.76	3.80	4.15	3.07	4.23	1.89	5.21	6.49	6.87	2.18	3.95	2.91	50.51
1920	3.45	6.36	4.78	5.29	4.95	8.30	1.98	2.51	1.00	3.38	3.34	3.87	49.21
Av. 48 yrs.	4.45	4.07	4.59	4.04	3.58	3.02	3.39	3.93	3.13	4.04	4.36	3.96	46.56

RAINFALL AT FALL RIVER, MASS. Elevation, 200 feet.

(U. S. Weather Bureau.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1893	3.09	7.52	4.88	4.83	5.80	2.77	1.85	6.77	3.28	3.73	3.84	6.77	55.13
1894	3.43	4.89	2.45	3.79	4.32	0.90	3.24	1.89	4.76	7.61	3.41	5.41	46.10
1895	3.84	1.02	3.76	4.69	4.27	2.50	3.38	3.55	1.12	5.88	5.30	3.00	42.31
1896	2.32	5.82	5.64	1.20	2.87	4.23	4.42	3.87	8.03	3.31	3.38	2.07	47.16
1897	4.35	2.44	3.18	3.95	4.10	2.35	4.60	5.87	2.38	1.10	8.22	4.43	46.97
1898	4.67	6.12	3.07	5.15	4.96	0.88	5.55	7.43	1.25	11.05	8.04	2.30	60.47
1899	5.56	4.72	7.37	2.28	1.90	3.55	3.82	1.73	6.64	2.31	1.57	1.43	42.88
1900	4.15	5.86	4.62	2.28	5.50	1.47	3.19	2.17	3.92	4.92	4.26	2.81	45.15
1901	2.47	0.80	7.34	8.98	7.56	1.77	2.13	3.01	2.75	2.65	2.13	9.57	51.16
1902	2.39	5.82	5.50	3.39	1.02	3.52	1.72	0.68	3.05	4.11	1.48	6.76	39.44
1903	4.48	4.99	7.13	4.76	1.08	5.14	2.16	4.11	0.65	3.88	2.01	3.32	43.71
1904	5.41	3.99	2.60	9.41	2.84	3.22	2.12	4.26	2.14	1.57	2.20	3.92	43.68
1905	3.92	2.26	2.74	2.21	1.24	5.64	2.61	4.94	4.03	1.98	2.29	4.28	38.14
1906	3.67	3.97	6.88	2.99	3.89	4.29	4.07	2.61	2.92	3.76	2.47	4.33	45.85
1907	3.13	3.09	2.44	3.11	4.11	2.07	0.88	1.08	7.33	2.35	6.61	6.12	42.32
1908	3.96	3.93	3.52	1.26	4.74	2.09	2.20	4.89	1.04	5.88	1.05	4.05	38.61
1909	2.78	5.58	3.82	5.94	2.82	1.04	0.43	2.30	3.06	1.76	3.47	3.26	36.26
1910	5.72	4.55	1.86	1.80	2.12	4.01	2.54	3.66	2.46	1.74	3.54	2.99	36.99
1911	3.29	1.81	3.43	3.69	1.95	1.49	4.71	3.48	1.91	2.28	6.79	3.71	38.54
1912	4.39	2.94	8.73	3.57	3.94	0.23	1.21	4.60	1.92	1.19	4.66	5.95	43.33
1913	4.49	3.30	3.47	6.36	2.01	1.05	2.87	2.87	2.95	9.15	2.23	4.08	44.83
1914	3.38	3.78	4.26	3.73	2.41	0.70	3.93	2.73	1.28	3.31	2.77	5.31	37.59
1915	10.00	4.34	0.05	2.21	2.04	2.27	3.17	5.25	1.73	3.62	2.91	5.11	42.70
1916	1.48	5.14	3.77	4.78	4.78	3.90	11.47	2.03	1.28	3.01	3.14	3.71	48.49
1917	3.63	2.73	5.04	3.17	4.77	4.63	1.21	3.75	2.93	5.69	0.45	3.10	41.10
1918	4.01	3.56	2.46	5.51	2.00	3.24	2.51	3.98	4.42	1.08	2.32	4.08	39.17
1919	5.07	3.80	5.29	3.24	4.62	1.93	5.52	7.26	7.48	2.51	3.71	2.33	52.76
1920	3.54	7.39	5.12	5.87	5.48	8.89	2.28	2.17	1.34	2.73	3.47	3.86	52.14
Av. 28 yrs.	4.02	4.15	4.30	4.08	3.54	2.84	3.21	3.68	3.14	3.72	3.49	4.22	44.39

RAINFALL AT FALMOUTH, MASS. Elevation, 22 feet.

(Woods Hole.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1873	4.76	4.92	3.15	4.63	4.32	1.01	1.56	3.07	3.86	5.54	9.05	6.23	52.10
1874	3.92	2.73	1.10	9.32	3.45	4.47	2.26	3.80	2.03	0.61	3.36	4.18	41.23
1875	4.20	2.88	5.34	3.95	4.52	2.23	4.68	2.37	2.79	3.62	4.77	1.23	42.58
1876	2.11	6.02	5.12	5.03	1.43	1.37	3.13	0.99	5.88	0.94	11.70	4.49	48.21
1877	2.83	2.84	10.78	4.20	2.39	2.22	5.69	5.42	0.28	6.97	6.80	1.20	51.62
1878	5.47	3.43	6.23	5.09	4.28	2.23	2.69	6.65	1.50	4.85	4.60	3.27	50.29
1879	3.37	1.98	4.39	4.79	1.35	2.31	3.31	4.81	2.22	1.37	3.54	2.86	36.30
1880	1.69	2.13	3.73	2.85	0.88	1.71	3.77	5.39	1.27	3.18	1.69	3.03	31.32
1881	2.57	5.46	4.22	2.12	2.39	6.25	1.71	0.65	2.50	2.68	5.52	2.06	38.13
1882	4.22	...	...	...	...	...	...	...	...	...	...	...	....
1887	...	...	3.00	4.42	1.91	4.03	2.93	10.84	1.99	2.21	2.84	4.59	....
1888	3.66	1.79	4.63	1.69	5.59	1.35	5.03	1.36	11.27	3.61	6.22	3.25	49.45
1889	3.91	4.39	2.87	4.44	5.33	1.96	3.63	4.21	3.37	4.49	5.45	2.06	46.11
1890	2.36	2.84	8.39	2.78	2.72	5 25	2.55	4.65	4.71	9.79	1.31	3.90	51.25
1891	6.95	6.26	4.15	2.84	1.94	1.16	2.18	3.57	3.72	7.09	1.65	3.68	45.19

RAINFALL AT FALMOUTH, MASS.—*Continued.*

(Woods Hole.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1892	3.58	1.95	5.11	2.61	5.43	1.80	1.64	2.45	2.85	2.08	8.47	1.72	39.69
1893	3.53	7.18	6.09	5.26	5.02	2.61	2.88	6.27	2.99	1.66	2.94	5.67	52.10
1894	5.07	4.69	1.81	3.97	3.52	1.23	0.68	1.31	2.24	9.29	3.87	5.63	43.31
1895	4.00	1.02	3.87	3.20	3.44	2.04	4.42	3.34	1.22	2.90	4.61	3.35	37.41
1896	1.75	4.26	4.83	1.33	3.58	3.62	2.81	2.99	5.66	4.53	2.49	3.18	41.03
1897	3.46	1.96	2.83	2.73	3.02	2.05	5.30	3.23	0.93	1.92	7.34	4.18	38.95
1898	3.94	4.14	3.12	5.83	4.66	1.10	5.18	5.10	0.76	7.94	6.94	2.97	51.68
1899	3.25	4.10	8.44	2.42	1.58	3.35	3.36	2.91	3.53	1.91	1.67	1.52	38.04
1900	4.96	5.21	3.56	2.82	3.63	..	....	...	...	...	...	...	....
Av. 21 yrs.	3.64	3.67	4.77	3.86	3.37	2.44	3.26	3.55	3.12	4.14	4.95	3.32	44.09

RAINFALL AT FITCHBURG, MASS. Elevation, 625 feet.

(Dr. Jabez Fisher.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.28	2.29	3.68	3.93	2.18	1.31	2.76	2.79	0.16	1.60	1.98	3.37	28.33
1915	5.20	3.05	0.00	1.83	1.44	1.31	8.74	7.28	1.41	2.79	3.20	4.74	40.99
1916	0.69	4.99	3.06	3.12	4.51	6.65	4.25	2.01	*3.48	*0.94	*2.46	*2.47	38.63
Av. 52 yrs.	3.24	3.28	3.37	3.09	3.58	3.44	3.79	4.21	3.35	3.72	3.38	3.09	41.54

* Dr. Mason's record. Dr. Fisher died December, 1916.

RAINFALL AT FITCHBURG, MASS. Elevation, 550 feet.

(Dr. A. P. Mason.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.28	2.19	3.45	4.01	1.90	1.51	2.83	2.52	0.19	1.62	2.63	3.28	28.41
1915	4.73	3.05	T	1.83	1.46	1.31	10.30	6.49	1.19	2.68	2.68	4.74	40.46
1916	1.32	4.44	2.53	2.76	3.30	6.53	4.77	2.54	3.48	0.94	2.46	2.47	37.54
1917	2.54	2.31	2.73	1.66	2.68	4.78	2.11	2.74	0.72	4.42	0.84	2.86	30.39
1918	2.48	3.11	1.97	2.15	2.92	4.39	3.64	2.12	7.53	1.03	2.60	3.01	36.95
1919	3.48	2.21	5.55	2.08	5.39	0.92	3.86	2.93	5.44	2.51	5.36	1.61	41.34
1920	1.73	4.03	3.50	5.12	3.45	4.84	4.92	3.13	7.60	1.57	3.80	6.41	50.10
Av. 35 yrs.	3.36	3.39	3.68	3.09	3.34	3.17	3.96	4.07	3.82	3.43	3.28	3.60	42.19

RAINFALL AT FRAMINGHAM, MASS. Elevation, 160 feet.

(Metropolitan Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.69	3.80	4.38	4.82	2.82	2.02	2.76	3.50	0.18	1.56	2.44	3.36	35.33
1915	6.49	3.37	0.04	2.46	1.63	3.47	7.92	5.80	1.03	2.99	2.51	5.33	43.04
1916	1.50	5.93	3.95	4.09	3.54	4.65	5.11	2.00	1.69	1.45	2.25	3.13	39.29
1917	3.46	2.64	5.20	2.43	4.70	4.28	1.15	6.11	1.50	5.24	1.29	2.79	40.79
1918	3.34	3.72	2.43	4.53	1.03	3.57	4.06	1.44	8.29	1.04	2.59	3.73	39.77
1919	3.45	3.41	4.67	2.91	4.92	1.99	4.96	3.90	5.36	2.18	6.09	1.94	45.78
1920	3.29	6.89	4.72	5.23	3.75	7.18	1.88	1.78	3.35	1.02	5.92	5.32	50.33
Av. 45 yrs.	4.01	4.08	4.32	3.52	3.27	3.01	3.54	3.73	3.31	3.58	3.70	3.85	43.92

RAINFALL AT FRAMINGHAM, MASS. Elevation, 160 feet.

(A. N. Rogers.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	...	...	...	...	...	...	...	3.41	0.30	1.57	2.27	2.65	....
1915	4.04	3.32	0.00	1.99	1.00	2.28	10.08	5.14	0.94	2.72	2.13	3.86	37.50
1916	1.20	5.29	4.72	2.95	3.06	4.93	2.92	1.59	1.39	0.47	2.02	2.58	33.12
1917	2.89	3.24	4.42	2.32	4.84	4.28	1.03	5.23	1.16	4.71	0.76	2.89	37.77
1918	3.45	2.95	4.02	4.37	1.98	3.38	2.74	1.23	8.37	0.58	2.85	2.53	38.45
1919	3.76	2.12	4.53	2.49	4.46	1.84	3.69	3.88	5.79	2.03	6.15	2.05	42.79
1920	2.95	4.79	3.87	4.98	3.13	6.74	1.88	1.88	1.99	1.41	4.48	4.81	42.91
Av. 6 yrs.	3.05	3.62	3.59	3.18	3.08	3.91	3.72	3.16	3.27	1.99	3.07	3.12	38.76

RAINFALL AT GARDNER, MASS. Elevation, 1 110 feet.
(Water Works Pumping Station.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.98	2.78	5.35	4.86	2.60	3.40	2.53	4.45	0.20	1.38	2.42	4.45	37.40
1915	6.50	3.60	0.01	3.02	1.47	2.14	9.94	5.18	1.51	3.00	2.46	5.65	44.48
1916	1.38	4.65	2.97	3.63	3.71	5.95	4.52	2.67	3.41	1.43	2.66	3.23	40.21
1917	3.04	2.94	3.89	2.13	4.08	5.63	1.68	5.82	0.55	6.08	2.19	2.72	40.75
1918	3.04	4.00	2.02	3.49	1.24	4.80	2.42	3.11	6.18	1.07	2.82	3.34	37.53
1919	3.03	3.23	4.56	2.20	7.09	1.21	5.97	3.21	5.22	2.73	6.53	1.61	46.59
1920	2.58	5.29	3.78	5.77	3.54	4.52	3.13	4.23	6.84	0.99	5.25	5.99	51.91
Av. 14 yrs.	3.22	3.54	3.41	3.46	3.25	3.10	3.65	4.21	3.69	2.80	3.54	3.62	41.49

RAINFALL AT GLOUCESTER, MASS. Elevation, 40 feet.
(Water Works Pumping Station.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1915	**6.02**	2.88	0.00	1.64	2.22	1.41	8.52	4.98	1.99	3.19	4.06	4.46	41.37
1916	1.74	4.57	9.68	6.46	3.36	8.57	4.39	3.70	2.21	1.00	2.92	2.97	51.57
1917	3.84	2.43	3.61	3.11	5.05	5.67	1.19	5.60	2.15	5.31	0.84	3.15	41.95
1918	3.00	2.44	3.12	4.17	1.64	2.63	1.96	2.17	10.03	1.20	2.66	3.15	38.17
1919	4.92	3.98	4.41	2.76	5.95	1.62	2.06	4.17	6.07	3.04	6.50	1.60	47.08
1920	2.35	10.11	4.93	6.38	4.11	10.22	1.00	0.90	2.98	2.84	5.79	2.87	54.48
Av. 6 yrs.	3.65	4.40	4.29	4.09	3.72	5.02	3.19	3.59	4.24	2.76	3.79	3.03	45.77

RAINFALL AT GRANVILLE (WEST), MASS. Elevation, 1 200 feet.
(East Branch Shed, Hartford Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1912	...	...	...	...	...	...	3.07	3.44	2.89	4.56	4.27	4.36	....
1913	3.39	1.92	6.83	4.84	4.88	1.19	2.58	3.36	3.90	8.39	4.31	1.51	47.10
1914	2.61	1.31	4.20	4.13	3.16	3.04	2.88	1.38	0.25	2.28	2.54	3.25	31.03
1915	6.14	4.72	5.12	3.12	2.47	3.90	6.06	8.06	3.00	2.24	2.44	5.16	52.43
1916	0.68	4.54	2.02	2.55	1.15	2.95	**6.26**	**2.65**	5.04	1.17	3.78	1.64	34.43
1917	1.56	4.18	7.52	4.35	5.60	6.12	1.55	5.19	0.78	7.57	1.50	2.78	48.70
1918	2.50	2.38	2.83	3.80	2.00	3.00	2.00	3.09	4.40	3.64	1.01	3.95	34.60
1919	3.00	3.60	5.58	5.00	5.55	0.53	4.16	3.99	4.62	5.07	6.47	1.52	49.09
1920	0.70	5.20	2.20	6.20	2.98	5.63	5.75	5.97	5.55	0.10	5.90	4.85	51.03
Av. 8 yrs.	2.57	3.48	4.54	4.25	3.47	3.30	3.91	4.21	3.44	3.81	3.49	3.08	43.55

RAINFALL AT GRANVILLE, MASS. Elevation, 750 feet.
(Westfield Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.33	2.47	4.28	6.08	3.60	2.86	3.61	2.29	0.38	2.77	3.79	3.44	37.90
1915	6.93	5.46	0.21	2.79	2.64	3.23	8.42	8.55	2.41	2.40	3.82	3.25	50.11
1916	1.55	3.45	4.08	2.74	3.38	5.30	5.80	2.45	6.28	1.60	4.35	3.34	44.32
1917	3.45	3.25	3.98	1.84	5.93	2.35	4.20	6.55	0.77	9.60	1.07	3.70	46.69
1918	4.23	2.18	3.28	2.46	2.42	3.99	2.19	2.96	7.56	1.43	2.76	3.99	39.45
1919	2.30	3.36	6.65	2.60	7.42	2.06	4.43	2.45	4.71	1.80	6.45	2.19	46.42
1920	2.65	4.80	4.19	5.59	3.41	7.68	4.04	8.32	6.56	1.88	6.20	6.30	61.62
Av. 13 yrs.	3.44	3.81	3.80	3.76	4.10	3.21	3.84	4.86	3.86	3.94	3.74	3.38	45.74

RAINFALL AT GRANVILLE, MASS. Elevation, 950 feet.
(Borden Brook Reservoir, Springfield Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.32	4.14	6.60	6.13	2.44	2.33	3.61	2.27	0.19	2.31	3.75	4.60	40.69
1915	7.43	6.24	0.35	3.94	2.36	4.70	7.18	8.39	2.55	2.62	3.60	8.58	57.94
1916	2.40	6.79	5.45	4.19	3.64	5.85	6.26	2.65	6.70	1.56	4.44	3.70	53.63
1917	3.18	4.12	4.75	3.20	4.20	5.15	2.35	3.73	1.00	8.65	0.90	4.90	46.13
1918	3.40	3.82	2.83	3.51	2.02	2.35	2.65	4.06	6.83	1.47	2.92	3.83	39.69
1919	2.52	4.06	5.61	3.67	8.76	1.04	5.00	3.80	6.11	2.52	7.06	2.70	52.85
1920	3.34	3.92	4.32	6.08	2.83	8.76	3.90	4.09	9.43	1.07	7.95	5.94	61.63
Av. 7 yrs.	3.51	4.73	4.27	4.39	3.75	4.31	4.42	4.14	4.69	2.89	4.37	4.89	50.36

RAINFALL AT GREAT BARRINGTON, MASS. Elevation, 750 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	...	...	...	...	3.02	1.96	2.66	2.45	0.38	1.16	2.06	1.72	....
1915	5.11	4.83	0.00	1.86	2.02	3.16	8.18	6.64	1.58	2.50	1.84	6.07	43.79
1916	1.34	3.04	2.01	2.92	2.63	3.84	7.14	2.86	7.06	0.90	3.51	2.34	39.59
1917	2.35	1.77	2.19	2.31	5.31	3.78	5.43	3.57	1.04	5.52	0.93	2.15	36.35
1918	1.12	2.93	1.59	3.78	3.60	2.65	2.55	6.55	5.55	1.39	2.95	3.30	37.96
1919	1.38	3.70	4.04	2.25	5.60	1.10	4.20	2.18	3.22	3.27	5.14	2.08	38.16
1920	2.18	2.62	1.94	6.22	1.75	6.14	3.31	6.01	9.56	1.59	4.91	4.15	50.38
Av. 6 yrs.	2.25	3.15	1.96	3.22	3.49	3.45	5.14	4.64	4.67	2.53	3.21	3.35	41.06

RAINFALL AT GROTON, MASS. Elevation, 350 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.81	2.87	2.64	4.17	2.64	1.38	3.50	3.28	0.20	1.32	2.95	4.05	31.81
1915	4.77	3.13	0.01	1.76	1.76	2.55	7.60	6.52	1.35	2.86	2.60	4.80	39.71
1916	1.32	5.69	3.55	5.23	3.98	6.92	4.10	2.11	4.13	1.11	2.72	2.79	43.65
1917	3.38	2.20	4.28	2.06	4.00	4.69	1.16	3.79	1.02	5.04	1.80	3.08	36.50
1918	3.60	3.49	2.14	3.52	2.07	3.38	2.63	2.54	7.11	0.97	2.70	3.14	37.29
1919	3.34	3.16	4.70	2.45	5.52	1.28	4.02	3.41	5 17	2.47	5.58	1.77	42.87
1920	2.55	5.93	4.09	6.06	3.68	5.27	3.37	4.14	5.62	0.71	5.40	5.97	52.79
Av. 31 yrs.	3.50	3.60	3.81	3.52	3.67	3.50	3.63	3.94	3.92	3.62	3.52	3.60	43.83

RAINFALL AT HARDWICK (GILBERTVILLE), MASS. Elevation, 560 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1885	...	...	...	...	...	3.58	2.39	11.19	1.30	3.77	5.90	3.20	....
1886	5.94	5.26	3.68	1.84	3.58	2.08	5.09	3.39	4.61	2.00	5.78	5.41	48.66
1887	6.68	5.78	5.19	**2.98**	**1.13**	4.05	6.06	5.05	1.51	2.75	3.52	4.09	48.79
1888	3.88	4.36	6.65	3.17	4.26	**5.40**	2.63	4.94	9.84	5.14	5.18	5.22	60.67
1889	4.73	1.13	2.99	2.03	2.53	4.18	9.63	6.35	4.28	5.35	5.91	3.92	53.03
1890	2.38	3.06	7.17	3.00	6.09	2.17	4.76	7.96	6.76	7.94	1.68	3.75	56.72
1891	6.53	3.30	3.70	2.93	2.68	4.93	5.22	3.65	1.31	3.82	2.31	5.44	45.82
1892	5.48	1.81	3.29	0.69	6.81	2.92	7.15	7.40	1.99	0.73	5.51	1.39	45.17
1893	2.74	7.50	3.32	2.98	4.84	4.46	2.64	3.40	2.62	6.68	2.40	5.68	49.26
1894	3.24	3.55	1.11	3.77	3.22	...	...	...	...	...	2.32	...	....
1895	...	...	...	...	...	...	5.03	3.32	3.21	...	...	...	....
1919	...	...	...	...	...	...	...	3.32	5.93	2.64	6.11	2.07	....
Av. 8 yrs.	4.80	4.03	4.50	2.45	3.99	3.77	5.40	5.27	4.12	4.30	4.04	4.36	51.03

RAINFALL AT HAVERHILL, MASS. Elevation, 125 feet.

(City Hall.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.17	2.38	3.82	6.03	2.30	1.38	1.62	3.58	0.25	1.10	1.77	2.47	28.87
1915	3.24	2.75	0.01	1.06	1.59	1.62	10.98	5.88	0.60	2.85	3.29	2.88	36.75
1916	1.56	4.13	3.09	4.19	5.02	6.60	4.91	1.78	1.99	0.88	1.89	2.82	38.86
1917	2.64	1.98	3.60	3.07	3.15	5.13	1.89	3.06	1.06	5.81	1.04	2.96	35.39
1918	2.23	1.93	1.94	3.19	2.03	3.50	7.13	2.25	7.58	1.34	2.70	2.05	37.87
1919	3.51	2.28	3.94	2.47	5.86	3.03	2.74	2.90	3.56	2.92	6.10	1.59	40.90
1920	1.62	4.90	3.72	4.62	2.99	4.82	2.70	2.92	5.26	1.58	5.76	4.37	45.26
Av. 26 yrs.	3.10	3.30	3.86	3.52	2.95	3.24	3.46	3.08	3.34	3.12	3.09	3.34	39.40

RAINFALL AT HINGHAM, MASS. Elevation, 70 feet.
(Henry W. Cushing.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.78	3.15	3.59	4.63	3.12	1.03	3.72	4.62	0.62	1.79	4.49	5.56	40.10
1915	7.66	3.86	T	2.21	2.16	1.64	6.32	5.85	0.70	2.67	2.50	4.63	40.20
1916	1.41	5.97	3.88	5.52	4.07	5.44	5.99	2.43	2.14	2.91	2.48	3.38	45.62
1917	3.74	0.92	4.74	3.69	5.32	5.54	2.01	8.54	2.33	6.86	0.47	2.56	46.72
1918	3.15	3.12	1.84	3.85	3.79	2.05	4.03	1.64	10.63	1.02	2.22	3.08	40.42
1919	4.12	3.41	4.73	3.32	5.29	3.34	5.07	7.25	6.29	2.98	5.55	2.30	53.65
1920	3.49	6.94	3.90	4.08	4.53	6.71	2.43	2.75	2.21	2.28	4.80	3.51	47.63
Av. 35 yrs.	3.99	4.02	4.08	3.67	3.48	3.04	3.85	3.79	3.85	4.08	4.00	3.97	45.82

RAINFALL AT HINGHAM, MASS. Elevation, 100 feet.
(Town gage, Hingham Water Company.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.21	3.18	5.43	5.04	3.44	1.03	3.88	4.06	0.75	1.94	4.34	6.07	42.37
1915	7.31	3.78	0.00	1.09	2.38	2.61	6.09	5.18	0.82	3.41	2.74	4.23	39.64
1916	1.63	5.72	4.14	5.43	4.06	6.11	5.07	2.71	2.18	2.70	1.03	4.22	45.00
1917	2.97	2.58	4.83	3.40	4.97	6.96	2.05	6.78	2.16	6.59	0.43	3.32	47.04
1918	3.39	2.36	3.54	4.36	2.44	2.33	4.32	1.72	9.19	0.74	2.04	3.60	40.03
1919	3.72	3.63	4.56	2.91	5.09	2.68	4.87	6.65	6.96	2.86	5.51	2.11	51.55
1920	3.46	7.36	4.18	4.94	4.55	6.75	2.02	2.94	3.68	1.42	5.63	3.86	50.79
Av. 24 yrs.	3.79	4.01	4.21	4.04	3.26	3.33	4.03	3.53	3.80	3.50	3.67	4.06	45.23

RAINFALL AT HINGHAM, MASS. Elevation, 150 feet.
(Accord Pond, Hingham Water Company.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1917	3.04	2.58	4.56	2.66	3.69	5.54	1.30	6.94	3.65	6.64	0.35	2.89	43.84
1918	3.11	2.65	2.75	4.10	3.66	2.64	4.51	1.43	10.62	0.50	1.92	3.60	41.49
1919	3.71	4.12	4.51	3.41	4.09	2.52	5.77	6.67	8.00	2.55	5.78	2.17	53.30
1920	3.28	7.19	4.48	3.84	3.55	4.88	3.09	1.62	3.65	1.31	4.32	4.03	45.24
Av. 4 yrs.	3.28	4.14	4.08	3.50	4.75	3.89	4.67	4.17	4.48	2.75	3.09	3.17	45.97

RAINFALL AT HOLDEN, MASS. Elevation, 750 feet.
(Jefferson, Metropolitan Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.61	4.05	4.75	5.36	3.50	2.20	4.02	5.30	0.19	1.93	3.46	4.03	42.40
1915	7.83	3.88	0.08	2.09	1.84	3.50	7.92	7.21	1.50	3.20	3.39	6.59	49.03
1916	1.77	6.43	3.99	3.78	4.24	6.61	6.53	1.78	4.31	1.53	3.43	3.07	47.47
1917	3.72	3.91	4.67	1.87	3.75	4.86	1.18	5.29	1.29	6.37	1.39	2.64	40.94
1918	3.25	5.27	3.07	3.58	0.86	4.73	2.67	3.05	6.61	2.05	3.47	4.08	42.69
1919	3.65	4 49	5.08	2.50	6.21	3.40	6.44	4.25	8.32	2.30	6.28	2.06	54.98
1920	3.67	7.33	5.10	6.52	3.54	6.61	4.84	2.56	6.32	0.70	5.38	6.32	58.89
Av. 24 yrs.	3.90	4.19	4.36	3.85	3.48	4.03	4.29	4.31	3.96	3.42	3.65	4.34	47.78

RAINFALL AT HOLDEN, MASS. Elevation, 1 100 feet.
(Kendall Reservoir, Worcester Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1912	...	...	...	...	...	...	...	...	...	...	...	2.95	....
1913	2.98	2.41	5.75	4.50	4.19	0.94	2.23	2.11	5.53	6.67	2.60	3.23	43.14
1914	2.50	3.36	4.67	4.75	3.22	1.97	3.52	4.29	0.15	1.59	3.21	3.00	36.23
1915	6.82	4.40	0.09	1.49	1.75	1.70	8.71	5.92	1.58	3.09	2.53	5.70	43.78
1916	1.82	5.89	4.11	2.89	3.91	6.07	6.48	1.85	3.64	1.62	2.56	3.04	43.88
1917	3.18	4.02	4.67	1.63	3.71	4.35	1.17	6.92	1.18	7.94	0.78	3.02	42.57
1918	1.88	1.93	2.46	3.49	0.96	4.63	4.08	2.97	8.07	2.19	3.62	3.26	39.54
1919	3.83	3.69	6.27	2.81	6.68	2.03	5.65	4.28	8.54	2.72	7.10	2.48	56.08
1920	3.37	5.78	4.97	6.17	4.31	5.47	4.54	1.97	8.54	0.82	4.71	5.50	56.15
Av. 8 yrs.	3.30	3.94	4.12	3.47	3.59	3.39	4.55	3.79	4.65	3.33	3.39	3.65	45.17

RAINFALL AT HOLDEN, MASS. Elevation, 1 000 feet.

(Kettle Brook, Worcester Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.15	4.08	5.35	5.21	3.31	1.97	3.76	4.46	0.03	1.92	2.68	3.70	38.62
1915	6.31	4.39	0.10	1.47	2.20	1.69	10.02	6.78	1.59	3.18	2.90	5.79	46.42
1916	1.74	7.06	3.86	4.04	4.02	6.29	7.31	1.78	3.63	1.80	2.42	3.86	47.81
1917	2.89	3.73	4.37	1.69	4.47	4.10	1.35	6.89	1.10	7.70	0.66	2.56	41.51
1918	3.59	3.30	3.24	1.89	2.22	4.58	4.51	2.22	7.85	1.98	3.08	2.71	41.17
1919	2.78	3.65	6.25	2.86	6.00	2.54	7.59	4.42	7.70	2.36	6.44	2.16	54.75
1920	3.57	6.36	4.68	5.59	4.85	6.53	4.83	1.85	7.93	0.70	5.55	6.47	58.91
Av. 16 yrs.	3.40	4.00	3.92	3.52	3.87	3.44	4.42	4.04	4.51	3.46	3.56	3.69	45.83

RAINFALL AT HOLDEN, MASS. Elevation, 750 feet.

(Reservoir No. 2, Worcester Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.82	3.18	4.89	4.93	2.68	2.05	3.53	4.47	0.20	1.73	2.88	3.42	36.78
1915	6.78	4.67	0.09	1.32	2.00	1.95	10.11	5.39	1.37	2.83	2.40	5.05	43.96
1916	2.01	7.09	4.25	3.27	3.38	5.79	6.21	2.12	3.50	1.91	3.52	3.23	46.28
1917	3.68	4.39	4.73	1.81	4.60	4.54	1.57	6.56	1.36	6.94	0.84	2.75	43.77
1918	3.49	3.64	3.43	3.17	2.17	4.79	5.10	2.26	8.96	2.02	3.45	4.02	46.50
1919	3.41	3.89	6.14	3.16	6.45	2.29	6.84	4.49	7.04	2.70	6.80	2.30	55.51
1920	3.28	4.91	5.08	6.50	4.38	6.66	4.35	1.54	7.78	1.01	5.68	6.13	57.30
Av. 35 yrs.	3.74	3.77	4.16	3.40	3.59	3.31	4.24	4.01	4.03	3.73	3.88	3.81	45.67

NOTE. — Gage at Reservoir No. 1 discontinued in 1910.

RAINFALL AT HOLYOKE, MASS. Elevation, 90 feet.

(Holyoke Water Power Company.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	1.98	5.11	5.00	5.67	2.91	2.45	2.86	3.03	0.19	2.36	3.34	3.05	37.95
1915	6.03	5.40	0.11	2.08	2.68	1.97	7.17	8.62	2.17	2.52	2.30	5.90	46.95
1916	1.50	5.61	3.79	4.04	3.07	5.36	6.79	1.50	3.88	1.13	2.84	3.72	43.23
1917	3.25	3.25	3.91	1.74	3.91	4.65	5.67	3.93	0.67	5.69	0.82	3.23	40.72
1918	4.41	2.14	3.40	2.47	2.49	4.65	1.59	4.01	7.07	1.22	2.70	3.91	40.06
1919	2.35	3.15	6.53	2.80	6.87	2.40	6.34	3.11	4.83	2.01	5.96	2.12	48.47
1920	2.92	5.63	4.06	5.73	4.25	6.59	4.51	6.66	4.74	3.55	5.43	6.00	60.07
Av. 23 yrs.	3.47	3.83	4.33	3.72	3.68	3.36	4.10	4.31	3.75	3.50	3.06	3.79	44.90

RAINFALL AT HOLYOKE, MASS. Elevation, 230 feet.

(Whiting Street Reservoir, Holyoke Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.43	1.57	4.34	4.58	2.80	2.29	3.68	3.74	0.27	2.32	3.18	3.01	35.21
1915	5.68	5.06	0.10	3.61	1.71	4.40	6.91	7.26	1.65	2.46	2.80	4.37	46.01
1916	1.65	4.56	2.53	3.15	2.88	7.01	5.16	2.46	5.93	1.00	3.41	2.99	42.73
1917	3.42	2.77	3.88	1.75	4.17	4.21	2.93	5.30	0.64	6.68	0.74	2.74	39.23
1918	3.80	2.39	3.32	2.28	2.59	4.63	1.83	2.67	8.44	1.22	3.14	3.67	39.98
1919	2.08	3.11	5.83	2.52	6.91	2.14	5.75	3.27	4.31	2.20	7.16	1.93	47.21
1920	1.93	6.84	3.30	5.28	4.40	6.69	2.80	5.81	6.34	2.67	4.78	6.16	57.00
Av. 14 yrs.	3.12	3.55	3.46	3.42	3.86	3.34	3.43	4.12	3.91	3.25	3.26	3.27	41.99

RAINFALL AT HOLYOKE, MASS. Elevation, 330 feet.

(Ashley Pond, Holyoke Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.44	3.74	4.44	5.30	2.88	2.72	2.57	3.35	0.24	2.43	3.58	3.15	36.84
1915	6.09	5.10	0.10	2.43	1.60	1.90	7.84	9.53	2.55	2.37	3.17	5.31	47.99
1916	1.40	4.50	2.61	3.30	2.97	6.07	6.26	2.55	3.98	1.21	3.21	2.73	40.79
1917	3.32	2.73	3.73	1.78	4.28	5.61	3.18	3.76	0.48	7.46	0.85	2.64	39.82
1918	3.74	2.08	3.15	2.26	2.27	4.65	2.19	2.94	7.65	1.15	2.91	3.55	38.54
1919	2.08	3.08	5.98	2.50	6.53	1.98	6.44	2.95	4.57	2.01	6.22	1.89	46.23
1920	1.89	5.34	3.06	4.92	3.39	6.27	3.13	5.84	5.96	2.05	4.78	5.67	52.30
Av. 14 yrs.	3.09	3.63	3.50	3.30	3.35	3.24	3.63	4.27	3.64	3.38	3.39	3.34	41.76

RAINFALL AT HOLYOKE, MASS. Elevation, 450 feet.

(High Service Reservoir, Holyoke Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.61	3.63	4.50	5.35	3.02	2.86	2.42	3.32	0.26	2.39	3.28	3.11	36.75
1915	5.10	4.61	0.08	2.45	1.91	2.91	8.37	8.18	2.49	2.32	3.38	4.82	46.62
1916	1.42	4.32	2.42	3.01	3.13	5.99	5.74	2.50	4.01	1.09	3.34	2.81	39.78
1917	3.26	2.70	3.67	2.01	4.44	6.08	3.12	3.87	0.51	8.36	0.80	2.42	41.24
1918	2.96	2.04	3.23	2.07	2.09	4.45	2.07	2.04	7.50	0.95	2.54	3.39	35.33
1919	2.14	3.11	5.87	2.66	6.47	1.99	6.61	3.05	4.58	1.95	6.30	1.80	46.53
1920	1.81	5.06	3.21	5.32	3.55	6.51	2.99	5.50	6.15	2.28	4.51	5.97	52.86
Av. 14 yrs.	2.96	3.50	3.48	3.33	3.76	3.35	3.53	4.01	3.58	3.46	3.32	3.19	41.47

RAINFALL AT IPSWICH, MASS. Elevation, 30 feet.

(Willowdale.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1911	...	...	...	...	0.26	3.36	7.08	4.49	2.17	3.20	4.08	3.65	....
1912	4.11	2.54	4.64	3.69	4.38	0.36	3.57	2.05	2.43	1.77	3.00	4.92	37.46
1913	3.09	2.90	4.14	4.04	3.03	2.60	1.43	3.09	2.85	7.47	1.95	3.66	40.25
1914	3.69	4.04	4.63	6.99	2.94	1.45	3.00	2.29	0.31	1.56	3.12	3.53	37.55
1915	5.73	3.46	0.15	2.84	1.36	2.44	9.88	5.66	0.80	3.08	2.54	4.68	42.62
1916	1.38	5.23	4.12	5.73	3.77	5.96	4.52	3.24	2.40	1.05	2.56	3.11	43.07
1917	3.52	2.41	4.15	2.96	3.82	5.53	2.58	3.11	1.80	5.09	1.69	2.70	39.36
1918	3.39	3.13	1.95	4.42	0.85	2.87	4.05	3.16	7.46	1.13	2.47	3.61	38.49
1919	3.92	3.40	4.54	2.57	5.48	1.22	3.00	4.78	5.72	2.72	6.19	1.67	45.21
1920	3.31	10.95	3.87	5.95	4.13	5.50	1.18	2.49	4.89	1.00	6.59	4.12	53.98
Av. 9 yrs.	3.57	4.23	3.58	4.35	3.31	3.10	3.69	3.32	3.18	2.76	3.35	3.55	41.99

RAINFALL AT LAKE COCHITUATE, MASS. Elevation, 140 feet.

(Metropolitan Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.53	4.11	4.41	4.93	2.71	1.59	3.17	3.62	0.27	1.69	2.45	3.38	35.86
1915	6.57	3.88	0.01	2.82	1.59	3.51	8.38	5.72	0.88	2.93	2.58	5.48	44.35
1916	1.52	5.66	4.62	4.12	3.20	5.45	3.89	1.75	1.30	1.28	2.18	3.18	38.15
1917	3.28	2.81	4.82	2.67	4.89	4.33	1.02	5.79	1.77	6.33	1.28	2.70	41.69
1918	3.26	3.80	2.26	4.61	1.10	3.34	3.64	1.41	8.58	0.92	2.57	3.55	39.04
1919	3.56	3.38	4.72	2.68	4.82	1.90	4.94	3.95	5.94	2.19	6.04	1.95	46.07
1920	3.25	7.01	4.28	5.61	2.96	7.73	1.81	1.58	3.88	1.21	5.96	5.47	50.75
Av. 69 yrs.	3.82	3.82	4.15	3.82	3.59	3.25	3.87	4.32	3.59	3.84	4.03	3.64	45.74

RAINFALL AT LAKEVILLE, MASS. Elevation, 60 feet.

(Assawompsett Pond, Taunton Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.71	3.69	3.96	3.85	2.41	1.00	3.67	2.61	1.40	2.39	3.35	5.26	36.30
1915	9.35	4.40	0.03	1.81	2.42	1.57	3.09	5.40	1.44	3.71	1.89	5.16	40.27
1916	1.88	4.31	3.09	4.35	4.78	4.58	9.06	0.71	1.43	2.81	1.95	4.61	43.56
1917	3.10	2.64	6.03	3.17	5.44	5.25	1.97	3.01	2.73	4.84	0.31	2.41	40.90
1918	3.37	3.11	2.22	4.97	1.42	3.59	3.44	2.45	3.80	0.58	2.65	3.71	35.31
1919	5.02	4.03	5.05	4.41	5.63	1.86	4.94	7.55	7.73	2.13	4.81	3.08	56.24
1920	3.20	7.86	5.03	5.42	5.14	7.93	2.26	2.58	3.84	1.94	3.89	3.98	53.07
Av. 27 yrs.	3.98	3.90	4.28	3.92	3.69	3.12	3.32	3.14	3.57	3.78	3.66	4.02	44.38

RAINFALL AT LAWRENCE, MASS. Elevation, 51 feet.
(Essex Company.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.37	3.18	4.48	5.36	2.35	1.28	2.43	3.92	0.18	1.19	2.40	2.96	33.10
1915	4.42	3.41	T	0.84	2.83	1.35	12.72	6.15	1.14	3.10	3.55	5.27	44.78
1916	1.81	5.45	3.41	4.48	4.74	6.58	4.18	2.80	2.70	0.92	2.30	3.10	42.47
1917	2.95	2.42	4.26	2.68	3.23	4.78	1.93	4.42	1.13	5.22	1.02	3.22	37.26
1918	3.01	2.44	2.62	2.79	2.05	3.44	7.63	2.14	7.97	1.27	3.09	3.72	42.17
1919	3.44	2.55	4.59	3.68	5.61	1.97	2.67	2.60	4.49	3.19	5.71	1.60	42.10
1920	2.14	6.41	4.21	5.78	3.05	4.70	2.79	2.55	3.95	2.75	4.63	5.56	48.52
Av. 65 yrs.	3.62	3.33	3.90	3.42	3.51	3.14	3.77	4.04	3.27	3.37	3.49	3.47	42.33

RAINFALL AT LAWRENCE EXPERIMENT STATION. Elevation, 45 feet.
(State Department of Public Health.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.11	2.78	4.03	5.92	2.39	1.36	2.60	3.93	0.26	1.21	2.56	2.87	33.02
1915	4.95	2.93	0.00	1.56	1.04	1.25	11.84	6.15	1.08	3.22	2.95	5.23	42.20
1916	1.57	5.01	4.46	5.04	4.54	6.38	4.13	2.32	2.07	0.93	2.30	3.20	41.95
1917	3.23	2.02	4.32	2.88	2.94	4.20	1.91	2.92	1.18	5.60	1.08	2.54	34.82
1918	2.85	3.00	1.99	4.30	1.21	3.44	5.89	1.91	6.59	1.35	3.12	3.48	39.13
1919	3.76	2.93	4.37	2.83	5.89	1.84	2.65	3.08	4.86	3.14	6.04	1.89	43.28
1920	2.66	7.23	4.23	6.36	2.32	5.22	2.83	1.99	4.69	1.23	5.73	5.43	49.92
Av. 17 yrs.	3.32	3.40	3.42	3.88	2.80	3.29	3.86	3.06	3.35	2.60	3.27	3.51	39.76

RAINFALL AT LEICESTER, MASS. Elevation, 800 feet.
(Lynde Brook Reservoir, Worcester Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.46	2.88	5.74	5.41	2.95	1.97	3.24	3.66	0.11	1.79	2.91	3.54	37.66
1915	6.30	4.21	0.11	1.51	1.76	1.70	10.13	6.41	1.10	2.77	2.37	5.30	43.67
1916	1.78	6.73	3.92	3.69	3.52	5.82	6.39	1.76	2.96	1.53	2.76	2.75	43.61
1917	2.91	3.08	4.06	1.64	3.83	3.91	1.53	7.82	0.71	6.00	0.55	3.02	39.06
1918	3.87	2.89	3.62	2.13	2.07	4.04	4.23	2.06	7.75	1.66	2.88	2.44	39.64
1919	3.98	3.24	6.11	2.79	5.67	2.06	5.30	3.47	6.81	2.09	6.06	2.15	49.73
1920	3.21	5.35	5.35	5.96	4.23	6.69	3.23	1.41	7.82	0.72	6.08	6.61	56.66
Av. 46 yrs.	3.53	3.50	4.16	3.25	3.17	3.10	4.11	4.08	3.50	3.63	3.59	3.54	43.16

RAINFALL AT LEOMINSTER, MASS. Elevation, 500 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.96	2.71	4.68	4.92	2.64	1.97	3.28	3.00	0.18	1.83	2.81	4.60	35.58
1915	5.87	3.71	0.02	1.73	1.61	1.64	9.61	7.41	1.58	2.81	3.01	4.57	43.57
1916	1.51	5.80	2.95	3.73	4.32	7.00	5.43	2.01	4.79	1.24	3.12	3.00	44.90
1917	3.15	3.03	3.41	2.11	3.76	5.05	2.14	3.82	0.90	5.95	1.01	3.04	37.37
1918	3.02	3.38	2.26	1.95	2.73	4.37	3.17	2.19	7.07	1.09	2.88	3.30	37.41
1919	3.46	3.02	5.70	2.27	6.11	1.24	4.14	4.17	5.73	2.55	6.33	1.86	46.58
1920	2.27	4.82	3.42	6.26	3.79	5.61	4.12	5.13	6.04	1.64	5.55	6.87	55.52
Av. 36 yrs.	3.57	3.64	3.78	3.30	3.68	3.42	4.08	4.24	3.86	3.57	3.61	3.65	44.40

RAINFALL AT LINCOLN, MASS. Elevation, 187 feet.
(Baker's Bridge.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.70	1.88	4.27	4.87	2.91	2.16	2.39	2.96	0.16	1.84	2.63	2.87	31.64
1915	4.84	3.51	T	1.44	1.93	1.87	10.35	5.76	0.96	3.58	2.79	3.78	40.81
1916	1.10	4.21	2.68	4.27	3.05	4.96	4.10	1.82	2.21	1.09	2.20	2.34	34.03
1917	2.61	1.86	2.88	3.09	5.07	4.20	1.50	2.56	0.73	4.36	1.22	2.40	32.48
1918	2.52	1.84	2.77	2.32	2.56	3.56	4.22	1.79	8.20	0.95	2.74	3.19	36.66
1919	2.75	2.81	3.75	1.85	5.62	1.22	5.46	4.35	5.15	1.94	6.07	1.24	42.21
1920	2.15	6.84	3.31	5.19	3.22	6.33	2.32	1.15	4.40	1.46	5.58	4.99	46.94
Av. 15 yrs.	2.76	2.93	3.01	3.13	3.40	2.91	3.72	2.94	3.39	2.46	3.19	2.94	36.78

RAINFALL AT LITTLETON, MASS. Elevation, 325 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1918	**3.38**	**2.78**	1.88	3.36	1.29	3.32	2.92	1.58	7.97	1.13	2.48	3.01	35.10
1919	3.18	2.95	4.96	2.72	5.88	1.26	4.75	3.11	4.47	2.75	6.01	1.89	43.93
1920	2.09	4.16	3.75	5.90	3.53	5.72	3.45	2.91	7.11	0.34	4.92	5.37	49.25
Av. 3 yrs.	2.88	3.30	3.53	3.99	3.57	3.43	3.71	2.53	6.52	1.41	4.47	3.42	42.76

RAINFALL AT LOWELL, MASS. Elevation, 80 feet.

(Merrimack Manufacturing Company.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.59	1.57	4.49	4.59	2.10	1.22	2.26	2.71	0.12	1.03	2.26	2.91	27.85
1915	3.78	3.41	0.00	1.61	1.48	1.43	10.21	5.77	0.98	2.45	2.77	4.22	38.11
1916	1.39	5.35	2.60	4.14	3.59	5.84	5.65	2.22	3.51	0.88	2.31	2.59	40.07
1917	2.85	1.86	3.37	2.24	3.26	4.44	1.42	3.41	1.29	4.24	1.10	2.47	31.95
1918	2.95	1.91	2.41	2.56	2.10	3.02	3.80	2.00	7.73	0.87	2.74	3.05	35.14
1919	3.27	2.54	4.10	2.27	4.71	0.70	2.94	1.80	4.07	2.62	5.13	1.36	35.51
1920	1.97	5.50	3.49	5.47	2.85	3.82	2.88	3.03	2.74	3.56	3.77	5.29	44.37
Av. 95 yrs.	3.15	3.13	3.51	3.46	3.44	3.25	3.58	4.15	3.33	3.49	3.66	3.34	41.49

RAINFALL AT LOWELL, MASS. Elevation, 100 feet.

(Proprietors Locks and Canals.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.42	4.44	4.98	5.90	2.54	1.66	2.77	3.61	0.12	1.17	2.58	3.21	36.40
1915	4.53	3.52	0.01	2.24	1.79	1.94	11.71	7.60	0.99	2.98	3.23	5.65	46.19
1916	1.56	6.10	3.68	5.47	4.29	7.20	6.17	2.25	3.66	1.05	2.53	3.16	47.12
1917	2.73	2.54	4.42	2.87	4.18	5.25	1.68	3.69	1.37	5.04	1.12	3.66	38.55
1918	3.37	2.25	2.78	2.99	2.36	2.71	2.88	2.06	7.71	0.89	2.24	3.19	35.43
1919	3.29	3.00	4.09	2.75	6.17	1.98	3.24	2.96	4.25	2.94	6.10	1.85	42.62
1920	2.54	6.53	4.60	6.24	3.36	4.69	2.85	2.78	6.46	0.78	5.12	5.94	51.89
Av. 66 yrs.	3.86	3.83	4.13	3.74	3.55	3.34	3.72	4.17	3.41	3.43	3.66	3.75	44.59

RAINFALL AT LUDLOW, MASS. Elevation, 410 feet.

(Ludlow Reservoir, Springfield Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.65	1.97	3.63	3.78	3.17	1.74	2.79	3.08	0.42	1.85	1.87	2.56	29.51
1915	5.82	3.09	0.07	1.80	1.61	1.73	6.81	5.73	1.96	2.00	1.74	3.99	36.35
1916	1.60	5.23	3.58	3.34	3.18	4.21	3.97	2.66	4.97	1.14	2.57	3.51	39.96
1917	2.18	2.77	2.63	1.34	3.06	3.64	1.83	4.67	0.91	4.58	0.59	2.95	31.15
1918	2.47	2.58	1.93	2.10	2.59	4.11	1.59	3.80	4.83	1.32	1.99	2.21	31.52
1919	1.84	3.37	3.65	2.18	2.91	2.13	6.24	1.64	5.27	1.87	4.11	1.86	37.07
1920	1.96	2.77	2.31	4.02	3.04	4.13	5.31	2.58	4.60	0.69	3.33	4.83	39.57
Av. 45 yrs.	3.25	3.15	3.77	3.06	3.27	3.29	4.44	3.93	3.55	3.37	3.11	3.37	41.56

RAINFALL AT LUDLOW, MASS. Elevation, 410 feet.

(Fillers, Springfield Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1916	1.57	5.14	3.56	3.38	2.98	4.14	3.87	2.50	5.15	1.01	2.59	3.51	39.40
1917	2.24	2.60	2.75	1.28	2.88	3.51	1.80	5.30	1.05	3.98	0.57	2.57	30.53
1918	2.05	2.65	1.24	1.93	2.57	4.70	1.71	3.93	5.51	1.34	1.99	2.59	32.21
1919	2.17	3.40	3.85	2.10	3.78	2.63	6.27	2.04	5.58	2.25	4.93	1.77	40.77
1920	1.79	2.30	2.08	4.26	3.15	4.97	5.58	3.19	5.68	0.82	3.92	4.85	42.59
Av. 5 yrs.	1.96	3.22	2.69	2.59	3.07	3.99	3.84	3.39	4.59	1.88	2.80	3.08	37.10

RAINFALL AT LYNN, MASS. Elevation, 40 feet.
(Water Works Pumping Station.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.47	2.80	3.98	6.23	2.70	2.20	3.04	3.40	0.57	1.56	2.71	3.07	35.73
1915	5.60	3.57	0.04	2.11	1.68	4.50	9.04	6.97	0.99	3.09	2.32	4.44	44.35
1916	1.07	4.50	3.76	4.24	3.42	5.62	3.73	2.77	1.73	0.93	1.70	2.88	36.35
1917	3.03	1.84	3.80	2.72	4.96	4.70	1.50	4.81	1.86	5.02	1.07	2.04	37.35
1918	2.74	3.04	2.10	4.35	0.73	2.01	2.89	1.70	10.25	0.62	1.91	4.01	36.35
1919	3.19	3.05	3.71	2.02	4.85	0.79	4.58	5.16	5.80	2.77	5.01	1.35	42.28
1920	2.68	6.50	3.66	5.10	5.33	6.55	1.66	2.49	2.59	1.34	5.46	2.92	46.28
Av. 48 yrs.	3.63	3.55	3.84	3.47	3.31	3.03	3.32	3.75	3.22	3.50	3.53	3.28	41.43

RAINFALL AT LYNN, MASS. Elevation, 70 feet.
(City Hall.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.17	2.65	3.59	6.18	2.42	2.19	3.11	3.34	0.47	1.47	2.59	3.69	34.87
1915	5.80	3.17	0.01	1.95	1.96	4.37	9.07	6.38	2.16	2.82	2.28	4.16	44.13
1916	1.22	4.23	2.42	4.11	3.54	5.74	4.24	2.47	2.13	0.78	1.62	2.35	34.85
1917	3.24	1.77	3.32	2.38	3.63	4.33	1.75	4.31	1.70	4.71	1.03	1.99	34.16
1918	2.78	3.28	1.82	4.37	0.57	1.98	2.66	2.43	10.29	1.01	1.79	3.95	36.93
1919	2.93	3.13	4.09	2.54	4.98	0.79	5.02	5.65	5.61	2.79	5.02	1.36	43.91
1920	2.39	4.98	3.49	5.73	5.35	6.60	1.69	2.10	2.99	0.97	4.73	4.03	45.05
Av. 40 yrs.	3.25	3.20	3.31	3.42	3.23	3.11	3.22	3.83	3.10	3.22	3.25	3.14	39.28

RAINFALL AT MANCHESTER, MASS. Elevation, 20 feet.
(Water Works Pumping Station.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1913	2.69	2.95	3.50	4.95	3.44	0.90	2.32	2.60	2.78	6.24	2.24	3.44	38.05
1914	3.99	3.19	3.87	5.94	2.69	1.86	2.77	2.49	0.73	1.42	3.84	3.99	36.78
1915	5.73	3.03	0.10	1.78	1.61	1.53	9.81	5.63	1.30	3.64	3.16	4.38	41.70
1916	1.34	4.26	3.75	6.33	3.21	6.41	4.17	2.41	2.52	0.91	2.38	3.11	40.80
1917	3.47	2.11	3.77	3.45	4.67	5.80	1.17	4.72	2.20	5.00	1.41	2.96	40.73
1918	2.99	3.20	2.06	4.59	0.68	2.56	3.18	2.27	9.03	1.19	2.32	3.64	37.71
1919	3.91	3.47	4.15	2.61	5.65	1.52	3.37	4.61	6.00	3.01	5.74	1.79	45.83
1920	2.17	6.98	3.76	5.54	4.45	6.39	1.19	1.30	4.43	0.98	5.20	3.76	46.15
Av. 8 yrs.	3.29	3.65	3.12	4.40	3.30	3.37	3.50	3.25	3.62	2.80	3.29	3.38	40.97

RAINFALL AT MARLBOROUGH, MASS. Elevation, 450 feet.
(Water Works Pumping Station.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1900	**5.03**	**11.73**	**3.43**	**2.59**	**3.79**	3.01	2.96	2.42	3.74	3.04	6.37	2.33	50.44
1901	1.65	1.21	5.71	8.00	7.40	1.22	5.14	3.66	3.19	3.03	2.86	8.31	51.38
1902	1.97	4.86	4.52	3.80	2.14	2.26	3.51	3.55	4.28	4.56	1.03	5.66	42.14
1903	3.08	3.69	6.60	2.71	1.23	10.85	2.40	3.18	2.88	4.40	1.76	2.82	45.60
1904	3.58	2.06	2.17	8.16	2.76	2.86	2.32	3.75	4.79	1.26	1.34	2.50	37.55
1905	4.23	1.64	2.99	2.67	1.15	5.24	6.34	2.76	6.37	1.34	2.04	3.31	40.08
1906	2.28	2.58	4.88	2.53	6.07	2.91	6.62	3.71	2.71	2.83	2.75	3.75	43.62
1907	2.60	1.23	1.75	2.49	3.05	3.27	1.74	1.21	8.69	4.58	5.26	4.06	39.93
1908	3.20	3.68	2.67	2.12	5.08	0 86	3.53	6.49	0.87	2.68	1.00	2.51	34.69
1909	3.36	5.33	3.31	4.62	2.64	2.01	2.67	2.94	4.45	1.18	2.83	2.65	37.99
1910	4.68	3.79	1.07	2.52	1.36	3.94	1.28	2.20	2.89	1.99	4.09	1.91	31.72
1911	2.72	2.27	3.22	2.27	0.64	3.10	3.07	4.97	2.87	3.94	4.52	3.41	37.00
1912	2.42	2.46	5.63	4.45	5.61	0.33	2.20	2.71	1.76	2.29	3.33	4.54	37.73
1913	2.42	3.15	5.61	4.28	4.25	1.27	2.37	1.81	4.50	5.90	2.76	2.65	40.97
1914	2.18	3.32	4.13	4.07	2.69	1.83	4.52	4.76	0.19	1.73	3.12	2.62	35.16
1915	5.21	3.06	0.03	1.30	1.60	2.76	8.79	2.91	1.03	3.41	2.70	4.23	37.03
1916	1.11	4.58	2.95	4.07	3.47	5.36	4.35	1.81	2.40	1.38	2.77	2.74	36.99
1917	2.68	2.43	3.61	1.67	4.54	4.35	0.96	5.05	2.28	5.49	0.86	2.99	36.91
1918	2.88	2.43	2.76	3.05	2.24	3.72	4.03	2.32	8.80	1.21	2.56	2.51	38.51
1919	4.28	2.94	4.80	2.60	4.43	3.26	4.78	2.81	4.30	2.04	5.44	1.84	43.52
1920	2.01	4.14	3.16	5.18	3.67	6.08	2.49	2.18	3.71	0.85	5.37	4.30	43.14
Av. 21 yrs.	3.03	3.46	3.57	3.58	3.33	3.36	3.62	3.20	3.65	2.81	3.08	3.41	40.10

RAINFALL AT MEDFORD, MASS. Elevation, 17 feet.

(Medford Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1884	4.70	6.24	3.18	4.49	2.14	3.28	3.84	4.60	0.75	2.87	2.61	4.69	43.39
1885	5.53	3.53	0.96	3.39	3.73	3.94	1.92	5.98	1.62	6.04	6.13	2.10	44.87
1886	6.82	7.31	3.73	1.81	2.99	2.93	2.98	2.67	3.17	2.65	3.83	4.74	45.63
1887	6.03	4.67	4.75	3.55	1.57	2.02	4.45	3.67	1.23	3.16	2.96	3.72	41.78
1888	3.80	3.25	4.53	2.82	4.96	2.21	2.26	6.72	7.79	4.73	6.30	4.94	54.31
1889	5.47	1.71	1.60	4.12	4.46	3.51	8.46	4.06	4.90	4.31	6.22	2.20	51.02
1890	2.51	3.35	6.13	2.48	5.71	3.53	2.07	3.64	3.49	8.92	1.36	4.14	47.33
1891	6.32	4.44	5.35	2.37	2.46	4.20	3.14	3.45	3.06	3.40	2.33	2.43	42.95
1892	4.68	2.53	3.06	0.84	5.58	3.33	1.59	6.34	1.89	1.94	4.62	1.34	37.74
1893	2.00	5.63	1.72	3.51	6.42	2.15	1.55	5.32	2.01	4.11	2.15	4.89	41.46
1894	3.07	3.01	0.95	...	...	...	...	...	...	...	...	...	....
Av. 10 yrs.	4.79	4.27	3.50	2.94	4.00	3.11	3.23	4.64	2.99	4.21	3.85	3.52	45.05

RAINFALL AT MIDDLEBOROUGH, MASS. Elevation, 53 feet.

(Water Works Pumping Station.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.29	2.71	3.88	3.94	2.31	0.91	3.40	3.11	1.50	2.22	3.51	5.02	35.80
1915	8.57	4.12	0.06	2.60	1.49	1.85	3.56	5.73	1.43	3.14	1.88	4.91	39.34
1916	1.57	4.51	2.68	4.60	4.15	4.71	8.71	1.41	1.49	2.55	3.13	3.06	42.57
1917	2.90	2.84	5.12	3.54	5.38	5.38	1.65	3.29	2.57	5.57	0.30	2.26	40.80
1918	3.22	3.04	2.05	4.56	1.35	2.80	6.36	2.12	3.66	0.77	2.16	3.35	35.44
1919	4.83	3.38	4.55	3.25	4.07	1.72	5.44	7.08	5.17	1.97	3.95	2.29	47.70
1920	3.04	5.61	4.40	4.81	4.69	6.67	2.47	2.48	2.86	1.87	3.57	3.37	45.84
Av. 33 yrs.	4.07	4.02	4.17	3.65	3.36	2.92	3.26	3.26	3.50	4.01	3.62	3.79	43.63

RAINFALL AT MILFORD, MASS. Elevation, 275 feet.

(Water Works Pumping Station.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1915	4.79	3.48	0.00	1.17	2.12	0.93	8.69	5.00	0.91	2.56	2.60	5.51	37.76
1916	1.42	4.88	3.88	3.55	3.11	4.76	5.77	1.80	1.45	1.37	2.36	2.75	37.10
1917	3.67	2.41	4.10	1.71	5.09	3.99	1.07	5.98	2.62	6.32	1.15	2.40	40.51
1918	3.47	3.86	2.83	4.45	1.28	3.00	3.66	2.14	8.78	0.87	2.66	2.65	39.65
1919	3.91	2.86	5.10	3.18	4.02	1.33	4.03	4.18	5.69	2.41	4.15	1.94	42.80
1920	2.36	4.92	4.22	4.74	3.36	5.74	2.67	2.15	2.12	1.17	5.10	4.03	42.58
Av. 6 yrs.	3.27	3.74	3.36	3.13	3.16	3.29	4.32	3.54	3.60	2.45	3.00	3.21	40.07

RAINFALL AT MILTON, MASS. Elevation, 100 feet.

(Rev. A. K. Teele.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1885	...	...	...	...	3.91	3.14	1.53	5.89	1.73	6.10	6.18	2.06	....
1886	5.17	7.70	1.83	3.56	3.95	1.56	2.16	3.64	2.89	3.89	3.22	4.92	44.49
1887	4.48	4.80	5.20	3.78	2.39	2.26	4.81	3.83	1.66	2.73	2.41	3.72	42.07
1888	3.13	2.66	6.23	1.86	4.12	1.59	1.25	6.32	8.70	4.69	9.66	5.18	55.39
1889	6.58	2.06	2.73	3.95	3.90	4.81	9.30	3.42	4.87	4.87	4.94	2.36	53.79
1890	2.45	3.60	8.39	3.34	5.31	1.94	1.41	3.11	7.01	8.22	1.24	5.48	51.50
1891	6.56	5.34	4.58	2.31	2.03	3.74	3.39	4.31	3.14	6.30	2.88	4.00	48.58
1892	4.69	3.75	3.32	0.73	5.02	2.86	1.82	4.66	1.95	2.45	5.29	1.03	37.57
1893	2.35	5.32	2.50	1.92	4.53	2.80	2.06	6.69	1.45	2.29	1.98	3.77	37.66
1894	2.13	3.72	0 93	3.20	3.39	1.35	2.63	1.21	2.46	6.02	3.68	4.48	35.20
1895	3.95	1.08	2.54	4.25	2.15	1.51	3.48	3.11	2.35	9.94	5.66	2.55	42.57
1896	2.33	4.29	...	...	...	...	...	...	...	...	...	...	....
Av. 10 yrs.	4.15	4.00	3.83	2.89	3.68	2.44	3.23	4.03	3.65	5.14	4.10	3.74	44.88

RAINFALL AT MILTON, MASS. Elevation, 640 feet.

(Blue Hill Observatory.)*

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	4.30	3.52	4.20	5.51	2.95	1.75	3.38	4.59	0.45	2.03	3.06	4.56	40.30
1915	7.38	4.30	0.06	2.44	2.01	1.43	9.52	4.83	0.74	3.11	2.47	5.69	43.98
1916	1.84	5.37	4.16	5.43	3.97	5.31	7.55	2.81	1.66	1.81	1.88	3.71	45.50
1917	3.32	3.15	5.03	3.18	5.86	4.77	0.85	8.58	3.17	6.88	0.63	3.36	48.78
1918	3.34	3.05	3.68	4.19	3.21	2.54	6.10	1.63	9.36	1.15	2.19	4.42	44.86
1919	4.20	3.59	5.52	3.17	5.62	2.56	5.51	7.39	7.28	3.14	5.81	2.45	56.24
1920	3.28	7.43	5.32	6.43	7.55	8.64	3.04	5.31	2.99	2.23	6.81	4.78	63.81
Av. 35 yrs.	4.09	4.00	4.33	3.69	3.59	3.16	3.90	3.95	4.08	3.91	3.81	3.88	46.39

* For gage at Valley Station, see Boston.

RAINFALL AT MONROE BRIDGE, MONROE, MASS. Elevation, 840 feet.

(Power Construction Company.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	**2.80**	**2.24**	**4.60**	5.36	1.15	1.70	4.12	5.85	1.15	1.83	2.38	3.11	36.29
1915	4.64	4.89	0.13	1.62	1.63	2.57	11.30	7.07	3.45	3.27	2.46	4.08	47.11
1916	2.89	4.75	3.36	3.73	4.55	4.65	4.70	2.89	4.79	1.81	4.80	2.41	45.33
1917	4.18	3.03	4.09	2.39	3.89	5.35	2.28	4.90	1.14	6.91	1.03	2.82	42.01
1918	2.61	3.34	3.31	2.10	4.43	3.28	1.96	1.79	6.31	2.35	2.66	4.01	38.15
1919	2.47	2.69	5.26	2.11	8.32	2.08	3.00	4.91	7.45	3.90	5.12	2.10	49.41
1920	1.90	2.95	3.41	5.94	2.06	5.68	4.19	4.72	4.02	4.48	5.80	6.03	51.18
Av. 7 yrs.	3.07	3.41	3.45	3.32	3.72	3.62	4.51	4.59	4.04	3.51	3.46	3.51	44.21

RAINFALL AT MONSON, MASS. Elevation, 370 feet.

(Dr. G. E. Fuller.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1885	4.25	3.50	1.62	2.96	2.25	1.79	2.33	8.68	0.89	3.49	5.31	3.39	40.46
1886	4.63	5.69	3.55	1.95	3.17	2.10	3.54	4.90	2.58	3.14	5.18	4.64	45.07
1887	5.70	4.37	4.56	3.15	0.79	4.11	6.27	7.98	1.48	2.33	3.19	3.92	47.85
1888	3.58	4.49	7.01	2.16	3.69	4.01	4.07	4.00	7.44	4.95	5.25	6.21	56.86
1889	3.94	4.13	4.02	2.87	1.95	3.16	8.12	2.76	2.72	6.21	5.51	3.31	48.70
1890	3.34	3.43	6.60	2.66	5.86	2.23	5.16	4.61	3.54	5.81	0.89	3.53	47.66
1891	7.33	5.38	3.01	3.07	1.86	2.84	4.88	3.27	3.40	4.18	2.36	4.20	45.78
1892	5.15	1.57	2.55	0.44	5.87	3.56	5.26	5.69	2.58	1.08	5.22	1.32	40.29
1893	2.71	7.45	3.31	3.60	5.51	3.68	2.09	3.24	3.39	5.33	1.14	4.79	46.24
1894	3.12	3.03	1.75	2.57	2.87	1.53	1.81	1.57	2.78	3.81	4.17	2.60	31.61
1895	2.66	0.95	1.97	4.22	2.46	4.24	4.20	3.45	5.51	7.25	4.87	4.25	46.03
1896	1.79	6.14	5.32	1.75	2.90	3.10	4.85	2.03	6.20	4.01	2.38	1.63	42.10
1897	4.18	3.07	3.46	1.61	5.15	3.96	9.45	3.23	1.31	1.07	7.21	5.70	49.40
1898	5.26	3.93	2.85	3.94	3.66	3.33	6.14	10.00	3.30	5.97	7.25	3.06	58.69
1899	3.64	4.11	6.51	1.25	1.58	4.54	5.92	4.47	3.29	1.81	2.57	2.52	42.21
1900	4.51	7.58	5.88	2.36	4.90	5.18	4.53	3.54	2.08	4.01	6.30	2.83	53.70
1901	1.88	1.10	5.96	6.69	7.19	1.26	3.50	5.82	4.54	3.53	2.36	10.06	53.89
1902	2.30	3.26	5.46	3.52	2.61	4.69	5.59	4.30	4.43	5.08	0.93	7.20	49.37
1903	2.38	3.94	6.73	3.21	1.07	5.88	2.44	4.14	3.49	3.15	2.76	4.14	43.33
1904	3.95	3.46	3.72	5.67	2.34	2.49	3.85	4.72	6.80	1.97	1.86	2.70	43.53
1905	4.32	1.59	4.56	2.56	1.16	6.00	1.88	4.92	7.01	1.99	2.19	3.42	41.60
1906	2.91	2.27	5.05	2.87	5.14	3.12	8.04	2.16	2.25	5.47	2.19	3.80	45.27
1907	2.80	2.11	1.61	3.05	4.11	2.38	2.65	1.30	9.79	6.67	5.72	4.83	47.02
1908	3.55	4.44	3.62	2.31	4.96	2.55	2.34	5.56	1.50	1.73	1.10	3.00	36.66
1909	3.44	5.23	4.08	5.74	**3.57**	**1.45**	**1.38**	**4.58**	**4.74**	**1.46**	**2.34**	2.35	40.36
1910	5.62	4.66	1.44	2.85	2.51	3.15	2.62	4.00	2.51	1.05	3.97	2.39	36.77
1911	3.15	2.45	3.85	2.55	0.59	**2.81**	**3.97**	7.62	4.47	3.71	4.16	**2.81**	42.14
Av. 27 yrs.	3.78	3.83	4.08	3.02	3.32	3.30	4.33	4.54	3.85	3.71	3.65	3.87	45.28

RAINFALL AT MONTAGUE, MASS. Elevation, 200 feet.

(Turners Falls Company.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.29	2.09	2.66	5.12	2.81	1.74	4.71	2.43	0.40	2.00	1.57	2.66	31.48
1915	5.16	4.65	0.22	2.75	1.67	2.24	8.84	10.06	1.63	2.98	3.00	6.34	49.54
1916	2.38	5.40	2.98	4.08	3.22	6.04	4.74	4.19	2.98	1.41	2.91	3.46	43.79
1917	2.94	2.35	2.98	1.87	4.79	6.23	2.39	3.46	0.95	6.83	0.73	3.19	38.71
1918	4.00	2.23	3.46	3.12	3.43	3.84	1.51	1.96	5.01	1.44	2.22	3.27	35.49
1919	2.25	2.58	5.37	1.82	5.85	0.96	3.08	3.44	3.29	2.39	5.72	1.83	38.58
1920	2.46	4.88	3.15	6.18	2.72	6.26	2.41	4.50	5.11	1.16	5.20	6.13	50.16
Av. 29 yrs.	3.19	2.87	3.54	2.94	3.22	3.25	3.58	4.02	3.51	2.92	3.02	3.33	39.39

RAINFALL AT NANTUCKET, MASS. Elevation, 15 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.68	4.00	4.63	3.30	3.38	2.58	3.25	4.42	1.61	2.15	2.32	6.73	41.05
1915	6.34	3.32	0.25	1.72	4.01	1.31	1.32	4.93	0.85	3.18	2.13	3.87	33.23
1916	2.03	4.04	3.60	2.90	4.35	4.89	5.02	1.05	1.44	1.92	2.55	3.24	37.03
1917	2.68	2.96	5.85	4.21	4.22	7.69	3.32	1.56	2.37	4.59	0.62	2.13	42.20
1918	2.71	2.22	2.42	3.84	1.44	3.19	1.47	1.62	2.06	2.12	1.53	3.65	28.27
1919	4.83	1.86	3.81	2.46	4.67	2.82	4.76	7.17	3.45	4.25	4.20	3.67	47.95
1920	3.84	7.00	3.46	3.86	4.15	3.58	1.98	4.43	1.18	3.96	3.32	4.24	45.00
Av. 46 yrs.	3.84	3.19	3.67	3.34	3.19	2.76	2.64	3.19	2.79	3.58	3.31	3.98	39.48

RAINFALL AT NEW BEDFORD, MASS. Elevation, 100 feet.

(City Hall.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1903	4.00	3.75	7.31	5.27	0.69	3.29	1.92	3.78	1.58	2.96	2.54	2.48	39.57
1904	4.19	3.71	1.45	8.19	3.20	4.79	2.00	5.40	2.61	0.99	1.48	3.95	41.96
1905	3.13	1.37	2.36	1.71	1.52	6.29	2.10	3.96	5.63	1.89	2.89	3.75	36.60
1906	3.66	4.21	5.53	2.59	3.51	3.48	4.73	2.26	5.14	3.12	3.16	1.75	43.14
1910	5.56	4.70	1.68	1.71	2.81	3.07	2.47	2.01	1.53	2.05	3.75	3.04	34.38
1911	3.73	2.81	3.44	4.51	1.45	1.84	5.75	6.57	2.93	2.47	6.21	3.78	45.49
1912	5.90	3.20	7.72	3.02	3.59	0.15	1.49	7.35	2.19	0.96	3.95	6.93	46.45
1913	5.87	3.87	4.71	4.57	1.62	0.63	1.87	4.68	3.48	7.40	2.37	4.14	45.21
1914	3.57	4.84	3.37	3.76	2.62	0.90	4.53	3.17	0.66	3.07	3.55	5.38	39.42
1915	10.09	4.07	0.10	2.17	2.49	2.50	2.76	6.05	1.37	4.67	1.68	4.04	41.99
1916	1.63	3.85	2.89	3.76	5.53	4.70	9.39	2.10	1.68	3.37	3.24	2.81	44.95
1917	3.51	2.25	5.05	3.23	5.14	5.80	0.93	3.00	3.37	3.92	0.32	1.82	38.34
1918	3.10	2.33	1.93	3.12	1.51	3.93	2.09	2.58	2.68	0.47	2.05	3.64	29.43
1919	3.44	3.75	3.15	2.83	3.91	3.22	6.83	5.70	4.74	2.13	3.28	2.46	45.44
1920	2.03	4.97	4.03	5.79	5.13	6.17	1.43	2.13	0.90	1.62	3.92	3.02	41.14
Av. 15 yrs.	4.23	3.58	3.65	3.75	2.98	3.38	3.35	4.05	2.70	2.74	2.97	3.52	40.90

RAINFALL AT NEW BEDFORD, MASS. Elevation, 100 feet.

(L. J. Hathaway, Jr.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.64	3.37	3.80	4.31	2.80	0.93	5.17	2.87	0.85	2.51	2.90	5.55	38.70
1915	10.75	4.57	0.09	2.92	1.81	1.55	2.50	6.94	1.81	4.40	1.79	4.70	43.83
1916	1.78	4.21	3.27	3.84	5.04	4.65	11.20	1.33	1.30	3.47	3.12	3.15	46.36
1917	3.08	2.79	5.87	3.44	4.85	4.86	0.89	3.39	2.56	4.47	0.35	2.09	38.64
1918	3.42	3.22	2.02	4.01	1.67	3.15	2.79	1.99	3.84	0.77	2.46	3.56	32.90
1919	5.11	3.66	3.41	3.08	4.21	2.22	5.27	6.81	4.47	2.35	3.94	2.78	47.31
1920	3.12	6.61	5.09	5.70	4.94	7.55	1.51	3.15	2.20	1.59	4.09	4.22	49.77
Av. 107 yrs.	4.03	3.89	4.27	3.94	3.94	3.12	3.30	4.15	3.45	3.86	4.14	4.12	46.21

RAINFALL AT NEWBURYPORT, MASS. Elevation, 80 feet.
(Plum Island Coast Guard Station.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1913	2.12	2.55	4.31	4.58	3.50	0.67	0.91	2.71	1.78	6.43	1.65	3.18	34.39
1914	2.55	2.07	3.66	6.23	2.47	1.54	3.58	3.62	0.29	1.29	2.61	2.34	32.25
1915	4.82	2.87	0.06	2.19	1.48	1.75	10.35	6.04	0.45	3.20	1.95	3.99	39 15
1916	0.91	3.39	1.65	4.32	3.21	7.35	4.35	1.99	2.24	0.92	2.26	1.84	34.43
1917	2.59	1.36	3.12	2.80	2.87	6.04	0.93	4.16	1.14	5.75	1.34	2.48	34.58
1918	2.09	2.78	1.21	3.45	0.96	2.79	3.25	3.26	7.27	1.55	2.78	3.15	34.54
1919	3.46	2.25	2.55	2.21	4.27	3.74	2.66	2.84	5.46	2.88	4.35	1.42	38.09
1920	1.35	7.26	2.62	5.66	3.73	4.66	3.06	1.96	5.24	0.84	5.00	3.35	44.73
Av. 8 yrs.	2.49	3.07	2.40	3.93	2.81	3.57	3.64	3.32	2.98	2.85	2.74	2.72	36.52

RAINFALL AT NEWTON, MASS. Elevation, 100 feet.
(Water Works Pumping Station.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.54	2.91	5.14	5.40	2.68	1.95	2.13	3.15	0.24	1.73	2.60	3.67	35.14
1915	6.98	3.28	0.02	3.44	1.46	1.28	9.11	5.69	0.99	2.63	2.68	5.05	42.61
1916	1.50	5.13	3.63	4.64	2.93	4.97	4.60	2.90	1.35	1.30	1.84	2.95	37.74
1917	3.17	2.31	4.36	2.60	5.45	4.31	0.86	7.19	2.44	5.71	1.08	2.24	41.72
1918	2.95	3.86	2.05	4.86	1.45	2.30	3.88	1.77	9.42	1.14	1.85	3.36	38.89
1919	3.69	3.28	4.51	2.93	5.47	1.53	5.84	5.12	7.63	2.33	5.30	1.79	49.42
1920	3.24	6.33	3.75	5.27	3.87	6.59	1.95	2.11	2.81	1.16	5.88	4.43	47.39
Av. 13 yrs.	3.55	3.73	3.50	3.72	3.07	2.81	3.55	3.72	3.15	2.54	3.06	3.32	39.72

RAINFALL AT NORFOLK, MASS. Elevation, 244 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.32	3.46	4.45	5.34	3.04	0.90	3.85	4.36	0.43	1.79	3.18	3.83	37.95
1915	7.10	3.12	T	1.96	1.63	1.51	9.77	5.22	0.46	2.63	2.42	**5.34**	41.16
1916	1.35	4.37	3.17	3.73	3.71	6.90	5.96	2.12	1.73	2.00	1.94	3.18	40.16
1917	3.11	2.22	4.91	2.90	5.54	4.71	1.47	8.33	2.99	6.12	0.42	2.15	44.87
1918	3.74	2.80	3.19	4.25	3.16	3.07	3.90	1.51	10.56	0.81	1.76	**2.23**	40.98
1919	3.41	3.47	5.14	3.07	4.83	2.57	6.02	5.29	7.05	2.41	5.30	2.31	50.87
1920	**2.84**	**5.11**	**4.06**	6.26	3.99	5.80	3.13	2.90	2.54	1.18	4.99	6.09	48.89
Av. 18 yrs.	3.55	3.14	3.37	3.57	3.12	3.18	3.78	3.75	3.93	3.22	2.93	3.46	41.00

RAINFALL AT NORTH ADAMS, MASS. Elevation, 1 200 feet.
(Notch Brook Reservoir.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.90	4.13	4.61	6.04	1.71	2.31	3.59	4.16	0.39	1.06	2.01	2.42	35.33
1915	3.99	4.44	0.55	2.36	1.53	2.01	8.05	4.75	2.49	2.41	2.03	6.15	40.76
1916	1.85	4.11	4.93	3.49	3.08	3.25	4.28	2.60	4.20	1.81	4.71	3.15	41.46
1917	3.18	2.49	2.99	1.49	2.63	3.17	2.37	3.77	0.97	5.19	0.87	2.61	31.73
1918	2.55	2.89	1.41	2.28	4.15	2.66	1.67	1.85	5.16	2.71	2.18	3.77	33.28
1919	2.87	1.13	4.03	1.65	6.31	1.98	2.98	5.15	5.74	3.03	4.05	2.04	40.96
1920	2.44	4.60	5.08	4.78	1.18	3.94	5.16	2.87	6.05	2.11	5.95	4.04	48.20
Av. 21 yrs.	2.98	3.20	3.51	3.15	3.02	3.34	3.71	3.89	3.48	3.16	2.61	3.37	39.42

RAINFALL AT NORTH ADAMS, MASS. Elevation, 1 000 feet.
(Broad Brook Reservoir.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.50	1.80	4.45	6.06	1.63	2.37	4.08	3.85	0.48	1.33	2.28	1.81	32.64
1915	4.04	5.29	0.27	2.73	1.60	1.50	9.10	4.57	4.17	2.46	1.79	8.12	45.64
1916	2.22	2.79	3.60	1.84	2 84	3.56	4.24	2.27	5.59	1.51	4.62	3.07	38.15
1917	2.43	1.80	3.27	1.26	2.40	3.45	1.77	3.75	1.37	6.21	0.68	2.30	30.69
1918	2.98	1.90	1.66	2.06	2.82	3.24	2.86	2.87	7.10	2.72	1.94	3.40	35.55
1919	2.47	1.83	6.12	1.84	6.11	2.20	2.96	6.14	6.41	4.03	5.86	1.81	47.78
1920	1.72	4.63	3.70	5.28	2.22	4.22	3.32	4.96	3.33	5.11	5.43	4.34	48.26
Av. 21 yrs.	2.99	2.67	3.51	3.30	3.21	3.78	4.06	4.41	3.67	3.45	2.80	3.35	41.20

RAINFALL AT NORTHAMPTON, MASS. Elevation, 850 feet.
(Mt. Nonotuck.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1886	5.39	4.05	3.69	3.41	3.27	2.09	4.32	2.10	4.46	3.03	5.27	3.45	44.53
1887	6.36	5.33	4.32	4.23	1.13	5.84	7.28	7.89	1.71	2.20	3.61	5.06	54.96
1888	4.46	4.87	6.98	3.02	4.76	4.61	3.16	4.81	10.18	5.13	4.76	4.70	61.44
1889	...	...	...	2.08	3.84	5.36	9.43	2.32	4.84	3.05	6.92	3.18	....
1890	3.38	4.00	4.56	1.75	4.23	2.63	5.46	5.74	6.21	6.91	1.25	2.57	48.69
1891	7.94	5.63	2.66	3.13	1.97	3.49	5.98	5.65	2.33	2.69	2.50	4.01	47.98
1892	4.69	2.76	2.20	0.75	4.57	2.85	3.80	6.63	1.67	0.56	5.19	1.24	36.91
1893	3.45	6.51	3.72	...	...	...	...	...	...	...	2.13	5.17	....
1894	3.06	2.50	1.48	1.85	3.39	0.25	2.02	0.63	4.12	5.29	3.71	4.08	32.38
1895	3.96	1.35	1.51	3.41	2.08	4.24	5.00	3.64	4.06	4.76	4.08	3.42	41.51
1896	0.76	3.95	7.08	1.43	2.70	3.06	4.62	3.20	6.17	3.41	2.85	1.01	40.24
1897	3.42	2.44	3.42	2.63	4.14	5.73	15.37	3.68	1.62	0.73	5.95	5.63	54.76
1898	6.84	5.30	...	4.04	...	...	...	...	...	...	...	...	....

RAINFALL AT NORTHAMPTON, (MT. TOM), MASS.* Elevation, 200 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1901	...	...	...	11.33	8.89	...	3.01	7.72	4.68	6.55	1.46	7.94	....
1902	2.48	4.87	8.28	5.02	2.72	3.12	4.76	5.64	7.21	6.33	1.40	6.55	58.38
1903	2.99	4.68	6.54	2.53	1.01	11.06	5.71	8.54	2.44	4.05	2.37	5.47	57.39
1904	4.16	2.69	4.87	7.81	6.11	8.84	4.03	4.70	6.87	2.74	1.20	2.99	57.01
1905	6.57	1.56	4.48	3.62	0.96	4.02	3.20	6.44	8.32	2.39	1.35	3.88	46.79
1906	2.01	2.55	6.42	6.03	5.49	5.73	2.22	8.01	3.66	8.27	4.12	4.65	59.16
1907	2.79	2.85	2.64	2.49	4.88	3.42	5.62	1.69	11.22	7.19	5.78	5.14	55.71
1908	3.47	5.36	3.53	2.39	5.54	1.00	3.79	5.00	1.22	2.70	1.10	1.77	36.87
1909	3.80	4.63	3.13	3.20	2.15	2.70	1.57	4.82	5.32	1.78	2.32	3.77	39.19
1910	6.15	4.18	1.67	5.06	2.29	3.87	1.86	3.52	3.36	0.92	3.44	2.09	38.41
1911	2.31	2.18	3.96	...	...	...	...	...	...	9.48	3.12	2.48	....
1912	1.72	2.76	...	...	...	...	...	...	...	...	...	...	....
Av. 9 yrs.	3.82	3.71	4.62	4.24	3.46	4.86	3.64	5.37	5.51	4.04	2.56	4.03	49.86

*Mt. Tom record stops March, 1908; Northampton record starts April, 1908.

RAINFALL AT NORTH ANDOVER, MASS. Elevation, 100 feet.
(Ingalls Station.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1911	...	...	...	...	0.28	3.13	5.69	4.85	2.08	3.12	4.30	3.92	....
1912	2.74	2.34	4.93	3.60	4.29	0.36	5.03	1.66	2.31	1.70	2.88	4.63	36.47
1913	1.85	2.86	4.15	3.95	3.41	2.01	1.35	3.84	3.47	8.37	2.27	3.03	40.56
1914	2.78	2.62	3.80	6.48	2.73	1.90	2.65	3.00	0.21	1.29	2.51	3.06	33.03
1915	5.07	3.24	0.02	2.24	1.54	1.71	12.41	6.60	0.86	2.82	2.71	4.81	44.03
1916	1.37	4.09	2.20	4.92	4.43	5.85	4.70	1.94	2.35	1.01	2.12	2.54	37.52
1917	3.16	2.15	3.72	2.77	4.18	4.33	3.06	2.72	1.54	6.34	0.86	2.83	37.66
1918	2.54	2.92	1.48	3.66	1.05	3.20	3.57	2.79	7.35	1.09	2.85	2.81	35.31
1919	3.52	3.19	3.46	2.88	5.59	1.36	2.35	3.96	5.30	2.57	6.08	1.43	41.69
1920	1.82	4.18	2.93	6.11	3.60	5.07	1.26	3.27	4.10	1.24	6.31	4.78	44.67
Av. 9 yrs.	2.76	3.07	2.96	4.07	3.42	2.87	4.04	3.31	3.05	2.94	3.18	3.32	38.99

RAINFALL AT NORTH ATTLEBOROUGH, MASS. Elevation, 200 feet.
(Water Works Pumping Station.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1913	7.00	3.50	9.10	7.30	3.50	1.40	...	3.95	3.69	9.32	3.87	3.31	....
1914	...	...	...	...	...	...	...	...	...	...	...	...	....
1915	8.14	3.32	0.05	1.54	2.03	6.82	4.25	5.23	0.52	2.11	2.63	4.77	41.41
1916	1.54	4.25	2.33	3.53	4.25	5.28	6.09	1.47	1.05	2.62	1.99	2.81	37.21
1917	3.01	2.00	4.48	2.53	4.86	4.49	1.04	6.70	2.27	6.59	0.36	2.47	40.80
1918	3.29	2.66	2.58	3.93	2.30	3.40	3.54	1.73	9.26	0.79	2.17	3.27	38.92
1919	4.23	3.22	4.93	2.65	5.62	2.09	5.56	5.36	5.20	2.08	4.28	2.15	47.37
1920	2.26	4.93	3.82	4.60	4.76	5.76	3.38	1.32	1.38	1.15	4.60	4.13	42.09
Av. 6 yrs.	3.74	3.40	3.03	3.13	3.97	4 63	3.98	3.64	3.28	2.56	2.67	3.27	41.30

RAINFALL AT NORTHBRIDGE, MASS. Elevation, 350 feet.

(Whitinsville.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.76	2.99	5.09	4.89	2.79	1.61	3.16	4.25	0.28	1.83	2.82	3.64	37.11
1915	7.36	3.58	0.03	2.03	2.34	2.27	8.92	6.18	1.52	3.01	2.63	4.91	44.78
1916	1.61	6.49	3.50	3.94	3.56	5.60	5.14	1.52	2.07	1.67	2.71	2.88	40.69
1917	2.96	3.22	4.19	1.96	4.83	4.70	1.16	8.62	1.59	6.08	0.78	2.71	42.80
1918	3.37	2.82	3.20	3.40	4.11	4.62	3.35	1.58	8.63	1.04	2.77	3.28	42.17
1919	3.90	2.20	5.46	3.54	5.32	1.60	3.43	5.87	6.99	2.88	5.72	2.15	49.06
1920	3.10	5.80	4.76	4.91	3.95	6.67	2.87	1.95	4.55	1.14	5.11	4.83	49.64
Av. 49 yrs.	3.92	3.91	4.33	3.55	3.41	3.19	3.65	4.33	3.45	3.79	3.70	3.69	44.92

RAINFALL AT NORWOOD, MASS. Elevation, 90 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1913	2.51	3.08	4.82	4.41	2.71	1.69	2.24	4.23	2.53	7.29	2.31	3.02	40.84
1914	2.23	2.88	3.18	4.97	2.78	1.13	3.34	5.25	0.38	1.73	2.68	4.13	34.68
1915	7.09	3.27	0.02	2.04	1.51	1.24	11.46	4.81	0.63	2.81	2.41	5.25	42.54
1916	1.21	4.51	2.40	4.25	3.56	4.80	7.90	2.23	1.61	1.41	1.71	2.91	38.50
1917	3.23	1.83	4.08	2.27	5.80	4.58	0.48	11.40	2.26	6.05	0.78	2.00	44.76
1918	3.05	2.89	2.10	4.54	1.21	2.80	6.41	2.04	8.94	0.87	2.12	3.25	40.22
1919	3.55	2.92	4.72	3.03	5.67	1.77	5.05	4.78	6.65	2.83	4.84	1.73	47.54
1920	2.08	4.97	3.64	5.26	3.88	6.90	2.70	4.38	3.39	1.20	6.02	3.62	48.04
Av. 8 yrs.	3.12	3.30	3.12	3.85	3.39	3.11	4.94	4.89	3.30	3.02	2.86	3.24	42.14

RAINFALL AT OTIS, MASS. Elevation, 1 400 feet.

(West Otis Post Office.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1913	3.36	2.21	5.72	4.29	3.71	0.96	2.50	4.01	3.44	8.15	4.19	2.08	44.62
1914	2.40	3.35	4.06	4.70	2.13	2.67	4.26	2.74	0.52	1.72	2.83	2.42	33.80
1915	6.14	4.46	0.30	2.18	2.65	4.79	6.78	7.27	3.02	2.40	2.14	4.56	46.69
1916	1.86	3.86	2.33	3.42	2.62	4.02	6.11	2.78	5.00	1.78	3.94	2.73	40.45
1917	3.28	1.85	3.27	1.27	3.66	4.79	3.17	1.66	1.51	5.60	2.25	1.45	33.76
1918	2.85	3.43	1.59	3.26	2.99	4.16	2.62	5.35	5.64	1.61	2.47	3.29	39.26
1919	2.23	3.02	4.45	2.41	7.28	1.78	4.26	3.24	4.52	3.25	5.31	2.51	44.26
1920	2.15	3.89	2.89	6.24	1.88	6.75	3.69	5.81	6.33	1.48	4.65	5.37	51.13
Av. 8 yrs.	3.03	3.26	3.08	3.47	3.37	3.74	4.17	4.11	3.75	3.25	3.47	3.05	41.75

RAINFALL AT PEABODY, MASS. Elevation, 75 feet.

(Water Works Pumping Station.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.49	3.80	3.42	6.67	2.45	1.38	2.31	2.95	0.35	1.48	2.63	3.26	34.19
1915	6.18	4.14	0.01	2.45	1.18	1.81	8.24	7.37	1.05	3.04	2.84	4.24	42.55
1916	1.68	4.36	2.65	4.49	3.99	5.87	2.94	2.71	2.09	0.96	2.18	3.02	36.94
Av. 14 yrs.	3.46	3.20	4.13	3.36	2.92	3.64	3.53	3.23	2.95	2.71	3.15	3.37	39.65

RAINFALL AT PEMBROKE, MASS. Elevation, 65 feet.

(Brockton Water Works Pumping Station.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1916	1.36	3.73	3.27	3.78	4.09	4.40	7.15	2.30	2.05	2.75	3.02	2.81	40.71
1917	3.42	1.71	4.68	3.65	4.98	4.84	2.21	5.59	2.71	5.50	0.24	2.29	41.82
1918	3.34	2.71	2.67	5.17	1.25	3.02	4.86	1.73	5.76	0.71	1.88	3.44	36.54
1919	4.63	3.28	4.66	3.70	3.64	4.52	5.63	6.87	7.21	2.69	5.14	2.46	54.43
1920	2.89	5.46	4.69	4.57	4.92	7.73	3.40	2.49	3.92	1.79	4.33	3.68	49.87
Av. 5 yrs.	3.13	3.38	3.99	4.18	3.76	4.90	4.65	3.80	4.33	2.69	2.92	2.94	44.67

RAINFALL AT PERU, MASS. Elevation, 1 700 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1913	3.58	2.48	6.25	3.12	3.43	0.62	2.09	1.90	3.41	6.49	5.10	1.80	40.27
1914	1.71	3.35	4.79	4.94	2.81	2.32	3.07	5.01	0.44	1.39	2.69	2.66	35.18
1915	5.75	5.24	0.22	2.93	1.72	2.67	10.91	7.11	2.26	2.26	2.33	7.04	50.44
1916	2.44	5.21	3.75	4.06	3.41	3.88	5.00	4.17	5.39	1.43	4.03	3.06	45.83
1917	3.29	2.25	4.18	1.42	4.24	5.92	3.42	2.77	1.40	5.84	0.63	2.88	38.24
1918	3.39	3.40	2.15	3.71	3.55	3.43	1.84	3.03	6.47	2.10	2.53	3.48	39.08
1919	2.62	2.73	4.25	2.34	7.29	1.57	7.08	4.30	5.82	3.84	5.49	2.12	49.45
1920	2.41	6.39	4.69	5.60	1.92	5.53	2.47	4.26	7.37	1.57	6.52	4.76	53.49
Av. 8 yrs.	3.15	3.88	3.79	3.51	3.55	3.24	4.49	4.07	4.07	3.11	3.66	3.48	44.00

RAINFALL AT PETERSHAM, MASS. Elevation, 1 100 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1916	1.36	2.35	2.65	3.09	3.28	4.73	6.95	4.41	7.24	1.23	3.93	3.20	44.42
1917	2.84	3.64	4.35	1.75	4.49	5.39	1.80	5.22	0.78	5.84	1.25	1.51	38.86
1918	3.35	3.18	2.04	3.30	2.11	4.87	2.14	2.60	7.50	0.99	2.67	4.05	38.80
1919	3.05	2.82	5.17	2.09	5.96	1.92	5.22	4.80	5.14	3.68	6.62	1.79	48.26
1920	3.11	7.44	2.36	4.79	2.89	4.23	3.30	5.80	5.14	1.51	4.90	6.35	51.82
Av. 5 yrs.	2.74	3.89	3.31	3.00	3.75	4.23	3.88	4.57	5.16	2.65	3.87	3.38	44.43

RAINFALL AT PITTSFIELD, MASS. Elevation 1 050 feet.

(City Hall.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	1.77	2.51	3.53	6.07	2.74	2.28	4.45	4.26	0.50	1.33	1.76	1.96	33.16
1915	3.48	5.63	0.25	1.13	1.36	2.52	9.07	5.64	2.35	2.39	1.58	7.82	43.22
1916	2.67	3.27	3.89	3.07	2.47	3.51	5.05	1.76	5.80	1.10	4.63	3.80	41.02
1917	3.30	2.48	3.65	1.60	2.85	4.19	4.27	2.78	0.98	5.91	0.45	2.27	34.73
1918	3.22	2.75	3.12	2.89	4.35	3.24	2.00	2.65	7.10	2.78	2.45	3.56	40.11
1919	2.93	2.12	5.60	2.57	6.91	1.60	5.11	3.47	4.60	3.65	5.03	1.45	45.04
1920	1.77	4.45	3.63	3.06	1.18	4.75	2.85	3.89	4.41	4.50	4.23	5.48	44.20
Av. 26 yrs.	2.92	3.00	3.74	2.98	3.13	3.72	4.31	4.18	3.81	3.29	2.89	3.42	41.39

RAINFALL AT PITTSFIELD, MASS. Elevation, 1 600 feet.

(Farnham Reservoir.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1917	2.93	2.45	3.99	2.06	3.15	4.81	3.00	2.03	0.70	6.42	0.55	2.73	34.82
1918	3.14	1.72	3.20	2.86	3.97	2.91	2.01	2.54	6.37	1.85	2.80	3.27	36.64
1919	2.32	2.09	4.65	1.25	5.25	1.19	4.86	2.67	3.48	2.81	5.05	2.14	37.76
1920	2.25	5.73	4.13	2.66	0.71	3.31	1.92	4.03	3.42	2.87	4.55	3.73	39.31
Av. 4 yrs.	2.66	3.00	3.99	2.21	3.27	3.05	2.95	2.82	3.49	3.48	3.24	2.97	37.13

RAINFALL AT PLYMOUTH, MASS. Elevation, 70 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.62	4.82	5.42	5.45	2.90	1.00	4.62	3.40	1.67	2.20	3.47	6.73	45.30
1915	10.35	3.98	0.09	3.47	2.20	3.88	3.42	6.19	1.55	4.22	2.37	4.99	46.71
1916	1.46	5.51	4.87	5.62	3.51	5.53	9.07	2.19	2.46	2.88	3.40	3.88	50.38
1917	3.36	2.59	6.27	4.88	7.02	6.53	2.20	3.40	3.32	5.02	0.60	2.32	47.51
1918	4.59	2.95	2.52	6.22	0.53	2.95	2.64	1.61	3.68	0.71	2.25	3.79	34.44
1919	5.39	3.77	5.06	3.78	5.47	2.07	4.73	7.65	4.95	2.67	5.58	2.61	53.73
1920	4.24	9.02	5.60	4.92	4.48	7.39	3.04	3.13	2.73	1.84	5.11	4.19	55.69
Av. 34 yrs.	4.38	4.23	4.59	4.30	3.45	3.05	3.30	3.55	3.44	4.13	4.09	4.12	46.63

RAINFALL AT PRESCOTT, MASS. Elevation, 1 000 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1916	1.48	4.20	2.74	2.92	2.64	5.82	6.31	3.31	5.23	1.35	3.89	2.27	42.16
1917	3.93	2.48	4.18	1.07	3.76	4.19	1.58	3.40	1.35	5.69	2.07	1.52	35.22
1918	2.86	3.53	1.86	2.25	0.94	4.93	0.92	2.80	6.14	1.39	3.11	3.84	34.57
1919	2.25	2.52	5.53	3.12	5.88	1.90	5.32	4.94	6.04	2.52	5.40	1.09	46.51
1920	1.90	3.19	2.47	6.31	3.45	6.94	4.27	5.21	7.56	1.03	3.94	6.45	52.72
Av. 5 yrs.	2.48	3.19	3.36	3.14	3.33	4.76	3.68	3.93	5.26	2.40	3.68	3.03	42.24

RAINFALL AT PRINCETON, MASS. Elevation, 1 125 feet.

(Metropolitan Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.13	3.40	3.46	4.80	2.52	2.02	4.58	3.99	0.11	1.58	3.24	3.68	36.51
1915	5.63	2.51	0.07	1.93	1.61	2.73	8.75	7.25	1.79	2.98	3.30	4.31	42.86
1916	1.54	5.75	2.44	3.14	3.72	6.85	5.93	1.74	4.14	1.47	3.07	2.57	42.36
1917	3.15	2.68	3.28	1.89	3.68	4.33	0.84	3.31	1.22	6.18	1.15	1.09	32.80
1918	2.42	3.27	1.66	3.33	1.16	4.33	2.29	2.75	6.39	1.46	2.82	3.54	35.42
1919	3.16	2.49	5.18	2.43	5.99	1.00	4.22	4.27	6.14	2.34	5.42	1.85	44.49
1920	2.75	5.90	3.92	6.14	3.54	4.92	5.10	4.21	6.02	0.62	5.00	5.37	53.49
Av. 31 yrs.	3.89	3.56	3.93	3.48	3.49	3.42	4.34	4.41	3.72	3.64	3.66	3.76	45.30

RAINFALL AT PROVINCETOWN, MASS. Elevation, 40 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.46	4.44	4.55	2.85	2.68	0.55	3.40	3.64	0.86	1.46	2.07	5.71	35.67
1915	7.19	3.62	T	2.37	2.80	1.56	4.95	3.18	1.16	4.98	2.50	3.12	37.43
1916	1.30	2.91	2.88	3.70	2.42	4.50	8.65	1.41	2.62	2.57	1.05	4.10	38.11
1917	2.60	3.28	4.11	4.37	4.48	7.72	1.33	3.29	2.11	3.82	0.45	2.19	39.75
1918	3.01	3.22	3.17	3.17	1.44	2.94	1.93	2.28	3.59	0.94	1.65	3.10	30.44
1919	4.15	3.40	2.45	3.25	4.15	1.00	4.45	3.95	3.38	2.73	3.25	2.31	38.47
1920	2.40	5.50	4.85	4.75	4.00	4.21	2.15	1.75	1.40	3.05	4.45	4.10	42.61
Av. 27 yrs.	4.02	3.45	3.54	3.30	3.10	2.50	2.70	2.96	2.86	3.58	3.08	3.65	38.74

RAINFALL AT QUINCY, MASS. Elevation, 20 feet.

(Wollaston.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1913	1.55	1.94	5.07	5.31	2.64	1.48	2.21	3.02	2.79	6.88	2.63	3.09	38.61
1914	3.69	3.98	3.21	5.12	2.91	1.87	3.16	3.99	0.28	1.68	3.31	4.21	37.41
1915	6.84	3.01	T	2.42	1.44	1.32	7.92	5.15	0.91	2.38	2.41	4.68	38.48
1916	1.35	4.91	3.70	4.39	3.24	5.58	5.99	2.20	1.17	1.47	1.85	3.10	38.95
1917	3.00	2.38	4.51	2.56	4.98	5.35	1.77	8.32	2.03	5.66	1.08	2.61	44.25
1918	3.15	2.92	2.55	5.05	1.30	2.01	4.19	1.97	8.17	0.88	1.86	3.30	37.35
1919	3.53	3.05	4.64	2.96	4.26	2.22	4.56	5.88	6.46	2.67	5.06	1.22	46.51
1920	3.25	6.55	4.49	4.69	5.11	5.89	2.24	3.26	3.86	1.12	4.85	3.45	48.76
Av. 8 yrs.	3.30	3.59	3.52	4.06	3.23	3.22	4.01	4.22	3.21	2.84	2.88	3.21	41.29

RAINFALL AT READING, MASS. Elevation, 80 feet.

(Water Works Pumping Station.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.34	3.65	4.09	6.32	2.76	1.44	2.34	2.78	0.23	1.51	2.92	3.69	35.07
1915	5.52	3.54	T	2.72	1.68	1.70	11.66	6.66	0.70	2.80	2.93	5.47	45.38
1916	1.22	5.37	3.37	5.14	4.59	5.86	3.13	2.30	3.11	1.01	1.94	2.91	39.95
1917	2.92	2.41	4.18	2.90	4.00	4.78	1.19	3.40	1.46	5.76	1.39	2.66	37.05
1918	2.92	3.02	2.02	4.10	0.85	3.04	2.99	2.81	8.37	1.02	2.24	2.06	35.44
1919	3.68	3.61	4.01	2.46	5.44	0.88	3.22	3.83	5.65	2.63	6.20	1.53	43.14
1920	2.75	6.46	4.18	5.75	3.27	5.27	1.94	2.02	4.27	1.16	5.30	4.77	47.14
Av. 22 yrs.	3.38	3.61	3.85	4.14	3.08	3.21	3.48	3.20	3.70	2.68	3.15	3.44	40.92

RAINFALL AT ROCHESTER, MASS. Elevation, 60 feet.

(Little Quittacas Pond, New Bedford Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.42	3.86	3.68	4.43	2.65	0.95	4.80	2.60	1.00	2.51	3.31	4.97	38.18
1915	10.07	3.92	0.18	2.51	2.49	1.64	5.69	7.38	2.11	3.95	1.98	4.52	46.44
1916	1.95	4.21	3.57	4.27	4.66	4.85	11.12	1.25	1.52	3.09	3.21	3.09	46.79
1917	3.19	1.97	5.92	4.69	5.05	5.35	1.72	3.57	2.75	4.97	0.15	2.07	41.40
1918	3.38	4.50	1.65	5.01	1.87	3.40	3.30	2.06	3.85	0.73	2.40	3.70	35.85
1919	5.48	3.91	4.97	3.37	4.27	2.42	5.59	7.94	6.06	1.78	4.23	2.48	52.50
1920	3.40	2.28	5.62	5.28	5.24	8.12	1.88	2.55	1.93	2.90	3.93	3.82	46.95
Av. 22 yrs.	3.96	4.08	4.49	4.15	3.46	3.33	3.34	3.29	3.26	3.56	3.19	4.14	44.25

RAINFALL AT ROCKPORT, MASS. Elevation, 30 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.30	2.13	3.85	5.00	2.46	1.68	1.80	2.09	0.25	1.43	4.10	3.68	31.77
1915	5.74	2.71	0.00	2.56	1.66	1.35	8.13	4.50	1.42	3.35	4.03	4.28	39.73
1916	1.13	2.78	2.43	5.94	2.61	7.08	4.22	2.74	2.30	1.11	1.47	3.94	37.75
1917	2.45	2.00	2.36	3.31	4.59	7.24	1.00	4.68	1.48	4.72	1.14	3.66	38.63
1918	2.53	1.38	1.40	4.36	0.75	2.32	1.92	2.35	10.65	1.16	2.48	3.24	34.54
1919	3.35	3.33	3.92	2.34	3.63	2.10	1.84	4.74	5.71	2.81	6.44	1.93	42.14
1920	1.26	2.51	2.67	5.85	3.85	5.64	0.99	0.92	3.77	1.62	4.77	3.67	37.52
Av. 18 yrs.	3.47	2.96	3.28	3.83	2.66	3.41	3.32	2.64	3.65	2.58	3.17	3.65	38.62

RAINFALL AT RUTLAND, MASS. Elevation, 1 160 feet.

(State Sanatorium.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1902	...	...	...	...	1.57	2.21	3.20	5.62	4.66	8.67	0.62	5.62	....
1903	2.60	3.71	8.31	3.32	1.35	8.78	3.36	4.06	2.87	3.98	2.80	2.05	47.19
1904	1.62	1.65	2.70	7.40	4.48	3.94	4.81	3.31	5.62	1.73	1.07	2.50	40.83
1905	5.02	1.08	3.73	2.53	0.75	5.05	5.00	2.77	5.87	1.85	2.70	4.16	40.51
1906	2.56	2.50	4.15	3.19	6.86	4.78	6.07	5.67	2.34	4.01	2.31	4.25	48.69
1907	2.31	1.42	1.67	2.86	3.51	4.79	**3.07**	1.44	9.43	6.62	6.79	3.11	47.02
1908	3.10	3.60	1.54	2.47	6.20	1.48	3.94	6.66	1.22	2.54	1.14	3.32	37.21
1909	3.28	6.37	5.05	6.51	2.28	3.21	5.18	4.11	3.59	1.73	2.16	3.90	47.37
1910	5.53	5.66	0.81	2.96	2.05	4.99	1.60	4.23	3.52	1.23	3.86	2.53	38.97
1911	2.99	2.36	3.83	2.47	1.87	2.65	2.62	6.19	3.07	5.42	4.06	3.14	40.67
1912	2.51	2.37	4.85	4.44	5.86	0.36	2.74	3.33	2.76	2.20	4.32	4.95	40.69
1913	3.38	2.45	5.68	4.12	3.93	**1.98**	**2.31**	**2.51**	**7.32**	**6.76**	2.73	2.23	45.40
1914	7.38	3.65	5.75	**4.93**	3.38	2.11	3.29	4.97	0.13	1.73	3.03	4.25	44.60
1915	6.96	3.60	0.09	1.85	1.84	3.98	6.89	6.54	1.77	2.92	3.50	**5.05**	44.99
1916	1.81	6.38	3.32	3.67	**3.33**	**5.26**	8.46	1.84	4.08	1.36	2.67	3.25	45.43
1917	3.48	4.10	4.59	1.99	4.13	4.46	1.53	6.16	1.51	7.01	1.71	**2.13**	42.80
1918	3.24	4.66	2.21	2.90	1.05	4.63	2.12	3.85	6.81	1.83	3.40	1.13	37.83
1919	3.48	3.54	5.87	2.46	6.66	1.31	4.84	4.62	8.58	2.42	3.58	1.92	49.28
1920	2.88	4.95	4.64	6.50	3.11	6.09	7.72	3.48	6.39	0.81	5.43	5.55	57.55
Av. 18 yrs.	3.56	3.56	3.82	3.70	3.48	3.88	4.20	4.21	4.27	3.12	3.18	3.30	44.28

RAINFALL AT SALEM, MASS. Elevation, 46 feet.

(A. A. Smith.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1886	5.18	7.83	3.66	2.36	3.65	1.57	4.46	3.03	2.81	3.00	3.85	5.64	47.04
1887	5.65	4.50	5.45	4.47	1.64	2.18	3.70	5.68	0.79	2.82	3.16	3.69	43.73
1888	3.70	2.70	5.17	3.23	5.10	1.73	1.96	5.89	7.97	4.94	6.63	5.50	54.52
1889	5.23	2.07	1.66	3.60	3.11	3.89	6.77	4.29	2.80	3.84	6.15	2.82	46.23
1890	2.44	3.21	6.97	2.41	5.65	4.31	2.36	3.56	4.42	7.35	1.51	5.62	49.81
1891	6.21	4.90	4.92	2.18	1.67	4.00	3.00	2.75	2.31	5.45	1.93	3.58	42.90
1892	4.61	2.58	3.76	0.63	6.11	3.59	3.03	6.81	1.61	2.78	5.52	1.30	42.33
1893	2.19	5.77	1.95	3.34	5.76	3.31	1.95	8.00	1.44	3.27	1.77	5.22	43.97
1894	3.43	2.94	1.07	2.69	4.78	0.62	3.06	1.26	2.28	5.45	3.68	4.31	35.57
1895	3.84	1.23	3.12	3.36	2.80	2.98	3.76	4.96	1.41	9.10	6.67	2.65	45.88
1896	2.71	5.67	4.49	1.70	2.16	2.59	2.73	2.37	6.55	3.29	3.98	1.97	40.21
1897	2.80	2.06	2.69	2.95	4.89	4.19	4.76	3.99	2.27	0.43	6.66	4.39	42.08
1898	5.02	5.50	1.98	6.26	4.32	1.87	4.43	7.38	2.32	7.60	5.93	2.81	55.42
1899	4.54	3.75	6.98	1.76	1.33	2.59	1.97	2.19	6.11	2.41	2.25	1.52	37.40
1900	4.91	6.62	...	2.07	5.50	1.67	1.97	...	4.24	...	...	2.11	....
1901	1.68	...	6.56	8.88	...	...	3.48	2.83	...	2.77	2.90	7.37	....
1902	...	6.77	4.33	4.44	1.25	2.19	2.70	2.59	2.90	5.06	...	5.53	....
1903	3.77	...	6.25	4.91	0.27	10.48	2.27	3.82	...	...	...	2.43	....
1904	4.52	3.08	2.37	9.43	4.25	3.34	1.39	3.05	5.92	2.21	1.80	2.55	43.91
1905	4.20	1.62	2.71	2.79	1.59	6.42	0.39	3.14	6.67	1.32	2.45	4.10	37.40
1906	2.74	2.63	6.79	2.75	5.01	3.43	4.88	...	2.07	3.40	2.85	5.26	....
1907	2.76	2.18	2.18	3.59	2.96	...	2.91	...	8.16	2.29	5.99	4.36	....
1908	2.58	4.01	2.79	1.40	4.16	0.84	4.12	3.76	...	5.01	1.18	...	....
1909	4.85	4.82	3.09	3.82	1.70	3.34	2.60	...	4.15	1.49	...	...	

RAINFALL AT SALEM, MASS. Elevation, 20 feet.

(Sewage Pumping Station.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1910	...	...	...	...	...	...	...	...	...	...	...	1.81	....
1911	...	...	3.21	1.60	0.39	4.31	5.56	4.40	2.74	3.32	5.04	4.09	....
1912	1.84	2.74	4.43	4.33	5.52	0.40	5.90	2.86	3.08	2.03	3.20	4.74	41.07
1913	2.61	3.29	4.46	5.33	3.74	0.82	2.68	2.94	2.72	6.70	2.05	3.18	40.52
1914	3.83	2.59	4.14	6.80	2.75	2.14	2.82	2.50	0.46	1.50	2.93	3.58	36.04
1915	6.30	3.40	0.26	1.88	1.16	1.77	9.46	7.12	1.35	3.28	2.08	4.07	42.13
1916	0.97	3 66	2.44	5.44	3.44	5.37	4.08	2.94	1.97	0.99	2.51	3.09	36.90
1917	2.84	1.92	4.03	2.83	5.27	5.66	1.20	4.62	1.70	5.12	1.39	1.14	37.72
1918	2.30	3.54	1.67	4.52	0.46	3.02	3.31	2.30	11.21	0.93	2.29	3.81	39.36
1919	3.70	3.18	4.43	2.50	5.93	0.97	3.15	6.29	5.59	3.11	6.17	1.53	46.55
1920	1.79	4.74	3.28	6.15	5.87	6.37	1.53	1.45	3.58	1.05	5.92	4.33	46.06
Av. 9 yrs.	2.91	3.23	3.24	4.42	3.79	2.95	3.79	3.67	3.52	2.74	3.17	3.28	40.71

RAINFALL AT SAVOY, MASS. Elevation, 2 000 feet.

(Hoosac Mountain.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1913	3.77	2.69	6.95	2.79	3.68	1.48	3.30	2.42	4.15	5.53	3.77	3.06	43.59
1914	2.85	3.37	2.10	3.21	2.53	2.49	4.51	5.48	0.46	1.84	1.43	1.73	32.00
1915	5.26	4.80	0.44	0.92	2.20	3.20	10.16	8.29	4.22	3.69	2.26	6.26	51.70
1916	3.30	4.69	3.70	3.23	3.92	5.80	6.93	3.12	4.72	2.26	4.24	3.37	49.28
1917	3.26	3.19	4.14	2.20	4.48	5.18	4.63	4.58	1.40	6.90	1.76	2.42	44.14
1918	3.86	4.25	3.87	3.31	4.45	4.11	2.19	2.89	6.52	2.92	3.19	4.39	45.95
1919	2.46	3.26	4.81	2.18	8.77	2.69	4.36	4.78	7.61	2.90	4.98	2.44	51.24
1920	2.43	6.90	4.63	6.24	2.10	5.31	4.45	3.83	6.78	2.22	4.70	5.92	55.51
Av. 8 yrs.	3.40	4.14	3.83	3.01	4.02	3.79	5.07	4.42	4.48	3.53	3.29	3.70	46.68

RAINFALL AT SHARON, MASS. Elevation, 270 feet.
(Sharon Sanatorium.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1903	...	...	...	...	...	...	2.52	3.49	1.27	4.26	1.32	3.25	....
1904	4.60	3.00	3.00	8.62	2.66	1.97	2.51	2.35	6.22	2.68	1.39	2.71	41.71
1905	4.34	1.71	2.45	3.68	1.58	5.17	1.57	4.49	6.54	1.76	2.07	5.08	40.44
1906	3.12	2.98	6.11	2.17	6.31	2.13	7.07	2.00	1.56	2.06	2.13	9.00	46.64
1907	4.38	3.36	2.24	1.77	3.54	1.25	1.25	1.35	4.46	3.15	2.22	3.64	32.61
1908	4.17	4.10	3.93	1.91	3.66	1.82	5.75	4.37	1.14	4.12	1.03	2.80	38.80
1909	4.16	5.46	3.93	4.77	2.10	2.04	1.15	2.06	0.37	1.20	7.80	3.21	38.25
1910	4.86	4.17	1.06	2.60	1.46	4.19	1.63	1.43	1.63	1.60	4.78	2.39	31.80
1911	2.81	2.95	3.09	2.77	1.49	4.30	4.55	7.28	3.42	3.09	6.00	3.14	44.89
1912	3.97	2.38	5.35	3.63	3.85	0.55	3.32	2.97	1.01	1.51	3.51	5.93	37.98
1913	3.88	2.92	4.91	4.67	2.75	1.35	2.61	3.26	3.07	7.74	2.49	3.48	43.13
1914	4.15	3.72	4.14	6.17	2.70	1.21	3.09	3.70	0.26	1.84	2.98	3.48	37.44
1915	8.99	3.96	0.03	2.72	2.04	5.80	4.47	5.37	0.63	2.84	2.91	4.64	44.40
1916	0.97	5.43	4.41	4.15	2.99	4.87	7.68	2.21	1.59	2.00	2.13	0.71	39.14
1917	2.64	1.86	4.02	2.05	5.31	4.96	0.83	8.01	2.49	6.15	0.54	2.15	41.01
1918	3.46	3.85	2.12	3.91	3.47	2.89	4.18	1.51	8.44	0.93	2.15	3.98	40.89
1919	3.62	3.27	4.99	3.35	5.66	2.53	5.89	5.70	8.71	3.44	5.34	2.18	54.68
1920	4.06	8.76	4.80	5.97	3.39	6.41	3.39	2.27	3.04	**1.20**	**6.02**	**3.62**	52.93
Av. 17 yrs.	4.02	3.76	3.56	3.82	3.23	3.15	3.58	3.55	3.21	2.78	3.26	3.65	41.57

RAINFALL AT SHELBURNE FALLS, MASS. Elevation, 300 feet.
(Power Construction Company.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	...	...	...	6.11	2.68	1.21	3.88	6.10	0.29	2.00	2.31	2.73	....
1915	3.15	4.44	0.11	2.31	1.22	2.14	9.06	9.48	2.60	2.85	2.57	4.23	44.16
1916	1.82	5.41	2.94	3.22	3.75	3.81	4.10	2.48	5.78	0.66	4.80	2.87	41.64
1917	3.46	2.11	2.79	2.22	4.91	6.24	2.37	2.89	0.59	8.24	0.56	2.23	38.61
1918	2.83	1.69	2.51	2.72	2.67	3.46	1.90	2.00	10.34	1.21	2.34	3.63	37.30
1919	1.48	2.45	4.20	1.83	8.05	0.79	2.72	3.57	4.58	2.57	5.70	1.62	39.56
1920	1.75	3.19	3.65	6.38	4.41	3.88	2.81	4.53	4.56	5.33	5.55	6.21	52.25
Av. 6 yrs.	2.42	3.22	2.70	3.11	4.17	3.38	3.83	4.16	4.74	3.47	3.58	3.47	42.25

RAINFALL AT SOMERSET, MASS. Elevation, 40 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.65	2.43	3.73	3.36	2.28	0.96	3.90	2.86	1.57	2.94	2.37	4.15	33.20
1915	8.16	3.96	0.03	1.61	2.02	2.49	2.78	4.76	1.51	2.88	3.16	4.09	37.45
1916	1.41	4.39	2.92	4.00	3.74	4.29	10.66	1.31	1.12	2.29	2.79	3.14	42.06
1917	2.87	2.55	3.87	3.04	5.20	4.33	1.12	3.95	2.95	5.95	0.24	1.80	37.87
1918	3.33	2.88	2.52	4.09	1.72	2.40	3.16	2.08	3.81	0.90	2.02	2.74	31.65
1919	4.76	3.87	4.22	3.04	4.30	1.84	5.47	6.74	7.10	2.82	4.07	2.54	50.77
1920	3.39	4.56	4.07	4.57	4.84	7.79	2.19	2.66	4.04	1.98	4.17	3.25	47.51
Av. 30 yrs.	4.07	3.95	4.27	3.96	3.41	2.96	3.27	3.37	3.41	3.59	3.52	3.73	43.51

RAINFALL AT SOUTHAMPTON, MASS. Elevation, 525 feet.
(Fomer Reservoir, Holyoke Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.21	5.65	4.32	5.13	4.00	2.01	3.18	3.20	0.19	2.03	4.32	3.14	40.38
1915	6.60	5.58	0.15	3.97	2.27	2.43	8.96	9.82	2.08	2.01	3.41	5.42	52.70
1916	1.81	6.44	2.83	4.44	3.24	5.89	5.42	2.06	8.04	1.55	3.79	2.97	48.48
1917	4.57	2.36	4.19	2.24	3.40	5.23	1.84	3.07	0.72	9.37	1.03	4.30	42.32
1918	3.81	1.85	1.58	2.90	2.86	4.30	2.88	3.84	6.67	1.43	2.93	3.47	38.52
1919	2.30	3.25	6.13	2.54	8.38	1.75	4.66	3.00	4.02	2.56	5.75	2.06	46.40
1920	2.48	5.17	3.41	6.18	4.93	6.79	2.30	6.25	8.01	1.96	6.66	6.93	61.07
Av. 24 yrs.	3.70	3.99	4.13	4.13	4.07	3.95	4.21	4.65	4.24	3.83	3.50	4.07	48.47

RAINFALL AT SOUTHBOROUGH, MASS. Elevation, 260 feet.
(Sudbury Dam No. 5, Metropolitan Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.86	4.18	4.34	4.88	2.80	1.84	3.48	3.86	0.24	1.62	2.56	3.64	37.30
1915	6.08	3.40	0.02	2.54	1.48	3.39	8.86	6.22	0.87	3.06	2.76	4.85	43.53
1916	1.51	5.92	4.02	4.15	3.44	4.90	5.18	2.26	2.02	1.37	2.23	3.20	40.20
1917	3.20	2.65	4.69	2.26	4.89	4.26	1.04	6.65	1.45	5.41	1.23	2.88	40.61
1918	3.49	3.50	2.38	4.10	1.06	3.64	3.82	1.73	8.07	0.97	2.80	3.46	39.02
1919	3.47	3.43	4.70	2.82	4.65	2.11	5.70	3.42	4.91	1.95	6.08	2.06	45.30
1920	3.06	6.15	4.72	5.12	3.27	7.23	1.97	1.57	3.62	0.88	5.75	4.98	48.32
Av. 22 yrs.	3.55	3.99	4.20	3.77	3.14	3.39	3.51	3.22	3.45	2.76	3.06	3.74	41.78

RAINFALL AT SOUTHBOROUGH, MASS. Elevation, 250 feet.
(Cordaville, Metropolitan Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	4.27	4.25	5.13	5.85	3.61	2.06	4.54	3.90	0.39	1.60	2.73	3.59	41.92
1915	6.83	4.12	0.07	2.51	1.92	4.09	8.21	6.06	1.19	3.00	3.22	5.53	46.75
1916	1.57	6.21	4.08	4.46	3.45	4.79	5.47	2.01	1.97	1.65	2.55	3.36	41.57
1917	3.87	2.77	5.21	2.34	5.43	4.31	1.20	7.10	1.51	6.43	1.47	2.90	44.54
1918	3.76	3.76	2.63	4.74	1.25	4.13	4.13	1.71	9.36	1.12	3.19	3.87	43.65
1919	3.84	3.65	5.55	3.26	5.06	1.94	6.55	3.98	5.80	2.37	6.32	2.07	50.39
1920	3.51	6.44	4.39	5.41	3.44	6.62	1.96	1.46	3.87	0.92	5.84	5.41	49.27
Av. 27 yrs.	3.97	4.17	4.37	4.10	3.41	3.60	3.69	3.71	3.94	3.45	3.83	4.08	46.32

RAINFALL AT SOUTHBRIDGE, MASS. Elevation, 720 feet.
(Hatchet Brook, Southbridge Water Supply Company.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1912	1.85	2.97	7.21	4.80	9.22	0.51	4.26	3.81	1.97	1.81	4.70	4.17	47.28
1913	3.04	2.54	5.02	5.38	3.78	1.95	1.04	5.27	3.73	6.35	3.02	3.40	44.52
1914	2.11	3.97	2.41	5.54	3.35	2.04	2.31	3.34	0.20	2.66	2.45	2.86	33.24
1915	6.18	3.57	0.16	3.32	2.87	3.45	5.46	7.33	1.57	2.74	1.48	4.14	42.27
1916	1.69	5.42	1.32	2.95	3.23	5.02	5.70	1.84	3.68	2.14	3.85	2.95	39.79
1917	3.62	2.73	3.72	1.96	2.45	4.57	1.09	5.76	1.60	6.67	0.89	1.48	36.54
1918	3.02	4.13	1 94	4.24	1.58	3.89	3.18	2.74	8.24	1.49	2.62	3.65	40.72
1919	4.30	3.36	5.95	3.12	9.16	2.54	4.76	3.52	8.29	3.09	5.74	2.13	55.96
1920	2.43	5.47	4.33	6.29	4.38	7.17	3.82	2.19	7.79	1.01	5.16	6.33	56.37
Av. 9 yrs.	3.14	3.79	3.56	4.18	4.45	3.46	3.51	3.97	4.12	3.11	3.32	3.46	44.07

RAINFALL AT SPRINGFIELD, MASS. Elevation, 105 feet.
(City Engineer's Office.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1915	5.16	3.64	0.07	1.62	1.80	1.69	8.77	7.57	3.26	3.22	2.30	6.13	45.23
1916	1.08	2.99	1.40	2.18	2.33	4.01	4.28	2.76	5.59	1.52	3.01	2.32	33.47
1917	1.97	2.60	2.87	1.61	3.75	3.55	5.37	8.84	1.04	5.68	0.75	1.97	40.00
1918	3.58	2.00	2.98	2.69	2.92	4.07	2.94	2.18	6.18	1.04	2.79	3.50	36.87
1919	1.70	2.86	5.58	2.70	5.84	1.98	3.49	3.26	5.82	1.31	5.11	1.56	41.21
1920	1.33	2.08	2.94	4.20	2.93	5.37	3.57	5.12	6.32	0.52	4.55	5.10	44.03
Av. 28 yrs.	2.58	2.70	3.39	2.90	3.31	3.15	4.11	4.39	3.92	3.35	3.05	2.96	39.81

RAINFALL AT SPRINGFIELD, MASS. Elevation, 200 feet.
(U. S. Arsenal.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.23	3.55	4.97	4.81	3.72	2.55	3.71	2.94	0.31	2.46	2.70	3.01	37.96
1915	5.73	5.35	0.15	2.25	1.63	2.83	6.04	5.51	2.60	2.77	2.26	5.68	43.80
1916	1.40	4.99	3.22	3.49	3.04	3.98	4.58	2.31	4.54	1.32	2.70	3.08	38.65
1917	3.57	2.73	3.57	1.58	4.06	3.11	3.72	7.04	0.94	4.46	1.90	1.49	38.17
1918	3.73	3.13	2.18	2.98	1.47	3.39	1.76	3.14	5.40	0.68	2.10	5.09	35.05
1919	1.54	3.44	5.32	2.76	5.58	2.06	3.76	2.56	4.72	1.67	4.91	2.16	40.48
1920	2.90	3.34	2.19	3.46	2.40	7.03	2.90	2.80	4.18	1.52	4.06	2.16	38.94
Av. 73 yrs.	3.30	3.57	3.64	3.22	3.85	3.61	4.26	4.35	3.57	3.90	3.53	3.43	44.23

RAINFALL AT STERLING, MASS. Elevation, 500 feet.

(Metropolitan Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.00	3.51	4.45	4.65	2.77	1.91	3.80	4.59	0.15	1.82	2.39	4.00	37.04
1915	5.48	3.29	0.05	1.70	1.65	2.78	8.57	6.14	1.74	2.91	2.97	5.05	42.33
1916	1.55	5.72	3.03	3.73	1.90	6.26	4.67	1.62	3.76	1.25	3.22	2.84	39.55
1917	3.24	2.90	4.07	1.65	3.94	4.47	1.37	3.26	1.01	6.29	0.91	2.94	36.05
1918	2.67	4.51	1.97	3.15	1.17	3.96	2.13	3.02	6.94	1.26	3.25	3.86	37.89
1919	3.17	3.69	5.69	2.70	6.81	1.48	4.64	4.27	6.43	2.58	6.29	2.30	50.05
1920	3.17	5.77	3.87	6.26	4.11	6.36	4.53	2.92	7.07	0.67	5.76	6.35	56.84
Av. 24 yrs.	3.37	3.82	3.96	3.60	3.32	3.68	3.85	3.85	3.63	3.17	3.33	3.98	43.56

RAINFALL AT STONEHAM, MASS. Elevation, 160 feet.

(Spot Pond, Metropolitan Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.36	3.77	4.64	6.52	2.64	2.26	2.93	3.21	0.24	1.52	2.68	3.37	37.14
1915	6.42	3.49	0.04	3.33	1.54	5.24	8.48	8.29	0.84	3.08	2.46	5.30	48.51
1916	1.55	5.71	4.41	5.26	3.92	5.59	3.28	2.32	1.80	1.38	1.84	3.19	40.25
1917	3.41	2.56	4.56	3.22	4.72	4.16	1.22	6.33	1.79	5.95	1.10	2.80	41.82
1918	3.56	3.51	2.46	4.31	1.37	2.67	3.63	2.18	9.42	1.13	2.05	4.07	40.36
1919	3.38	3.41	4.44	2.98	5.26	1.48	4.27	5.44	5.41	2.60	6.09	1.65	46.41
1920	3.18	7.70	4.16	5.74	4.98	7.15	1.88	1.37	3.50	1.12	5.53	4.70	51.01
Av. 22 yrs.	3.65	4.00	4.15	4.07	3.18	3.63	3.26	3.41	3.67	2.75	3.05	3.69	42.51

RAINFALL AT TAUNTON, MASS. Elevation, 50 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	4.70	3.51	4.92	5.22	2.65	1.17	3.52	2.74	2.24	2.51	3.57	5.45	42.20
1915	9.93	4.24	0.05	1.86	2.74	1.35	4.26	5.47	1.79	3.01	3.32	6.69	44.71
1916	2.11	4.94	3.82	5.12	4.13	4.60	9.41	1.60	2.36	3.27	2.87	4.27	48.50
1917	3.62	2.38	4.79	3.69	5.56	5.20	0.84	5.85	3.07	6.87	0.41	2.85	45.13
1918	5.91	3.49	2.42	4.86	1.83	2.99	6.83	2.69	8.89	0.89	2.52	4.14	47.46
1919	5.02	4.03	5.05	4.41	5.63	1.86	4.94	7.55	7.73	2.13	4.81	3.08	56.24
1920	3.84	6.83	4.87	5.54	5.21	6.48	2.90	3.39	3.43	1.67	4.03	4.12	52.31
Av. 46 yrs.	4.85	4.46	4.43	4.05	3.59	2.95	3.73	3.82	3.62	3.89	4.14	4.15	47.68

RAINFALL AT TEMPLETON (EAST), MASS. Elevation, 1 000 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1893	...	...	...	...	...	...	...	3.76	1.38	5.01	0.84	4.48	....
1894	4.72	3.60	0.63	2.83	1.37	0.32	1.88	0.54	3.68	1.57	3.43	3.74	28.31
1895	3.77	1.76	3.39	3.76	0.96	1.72	2.02	1.97	2.25	4.08	4.17	2.97	32.82
1896	1.62	4.36	6.15	0.25	1.68	1.01	2.99	2.35	4.83	2.75	2.26	1.01	31.26
1897	2.09	1.51	1.58	0.76	3.96	4.16	11.03	3.60	1.71	0.53	5.54	4.09	40.56
1898	4.31	1.96	1.04	3.10	2.77	3.74	2.18	**7.92**	3.60	5.99	6.43	2.16	45.20
1899	2.23	4.10	4.08	1.09	1.38	4.91	4.54	1.15	3.89	1.13	1.32	1.70	31.52
1900	4.11	6.90	4.23	2.57	2.15	2.83	2.42	3.61	4.56	3.43	5.52	1.54	43.87
1901	1.29	0.74	3.47	2.77	3.98	1.05	3.08	5.13	1.90	3.21	2.37	8.11	37.10
1902	1.46	2.31	3.81	3.43	1.96	3.57	4.28	3.06	3.11	4.65	0.32	6.01	37.97
1903	2.75	3.96	5.44	2.39	1.36	5.51	3.68	3.37	2.99	3.02	1.67	3.72	39.86
1904	2.91	2.12	3.29	4.15	3.02	3.60	1.78	3.71	4.16	1.00	0.83	2.10	32.67
1905	3.87	1.46	2.66	1.28	0.61	3.82	3.32	6.45	5.87	1.26	1.95	3.15	35.70
1906	2.01	2.74	**4.48**	1.00	6.56	3.62	4.90	3.44	**2.17**	**3.69**	**2.10**	**3.84**	40.55
Av. 13 yrs.	2.86	2.89	3.40	2.26	2.44	3.06	3.70	3.56	3.44	2.79	2.92	3.40	36.72

RAINFALL AT WALPOLE, MASS. Elevation, 175 feet.

(Standard Woven Fabric Company.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1912	3.06	2.27	4.74	3.05	3.82	0.51	3.23	2.98	0.94	2.11	2.84	3.47	33.02
1913	1.31	1.99	4.16	**4.87**	2.53	1.54	3.07	2.68	3.15	7.61	2.31	3.02	38.24
1914	3.89	4.08	4.07	5.51	2.70	1.20	3.41	3.78	0.43	2.09	2.96	3.79	37.91
1915	8.34	3.55	0.02	2.34	1.82	1.20	9.32	4.79	0.52	2.49	3.61	5.13	43.13
1916	1.05	4.87	3.27	3.84	3.44	5.14	7.48	1.92	1.44	1.75	1.63	3.14	38.97
1917	3.14	2.04	4.22	2.43	4.83	4.44	0.86	8.68	2.27	5.49	0.42	2.00	40.82
1918	3.21	3.06	2.12	5.22	1.79	2.70	4.81	1.36	9.38	0.64	1.20	1.80	37.29
1919	3.20	2.57	3.70	2.57	5.41	1.57	5.07	4.44	5.92	2.61	4.55	1.98	43.59
1920	3.21	6.34	4.18	5.26	3.31	6.16	2.57	2.86	2.46	0.19	4.86	4.33	45.73
Av. 9 yrs.	3.38	3.42	3.39	3.90	3.29	2.72	4.42	3.72	2.95	2.78	2.71	3.18	39.86

RAINFALL AT WALTHAM, MASS. Elevation, 30 feet.

(Boston Manufacturing Company.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.14	2.08	4.49	5.37	2.78	1.89	2.31	4.22	0.06	1.53	2.64	3.47	33.98
1915	6.52	3.20	0.00	3.76	1.51	1.81	10.76	5.58	0.85	2.77	2.89	5.28	44.93
1916	1.33	4.78	2.26	4.33	3.08	5.56	3.23	2.26	1.27	1.25	1.97	2.58	33.90
1917	2.58	2.22	3.38	2.08	4.48	4.32	0.78	3.55	2.63	6.33	0.60	3.04	35.99
1918	2.87	2.12	1.98	2.90	1.73	2.73	3.35	1.25	9.34	1.10	2.08	2.18	33.63
1919	3.50	2.97	4.06	2.34	5.06	1.18	6.23	4.39	7.88	1.73	4.04	1.42	44.80
1920	2.70	5.86	3.65	5.20	2.72	6.90	1.54	1.72	1.86	2.13	4.47	3.60	42.35
Av. 96 yrs.	3.31	2.92	3.63	3.75	3.53	3.18	3.66	4.17	3.47	3.65	3.89	3.27	42.43

RAINFALL AT WALTHAM, MASS. Elevation, 180 feet.

(Hobbs Brook Reservoir, Cambridge Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.03	2.80	4.67	5.13	2.50	2.10	2.42	3.35	0.30	1.70	2.65	3.37	34.02
1915	5.85	3.75	0.00	2.49	2.19	1.42	10.37	6.75	0.85	3.05	2.60	5.05	44.37
1916	1.52	5.01	4.03	4.50	3.10	6.12	3.30	2.00	1.50	1.10	2.28	2.67	37.13
1917	3.01	2.48	4.35	2.65	4.70	3.90	1.05	3.35	1.70	5.23	0.87	2.64	35.93
1918	3.24	2.21	3.30	3.00	2.20	3.28	4.00	2.05	8.10	1.00	2.15	3.29	37.82
1919	4.05	3.30	4.45	**2.23**	**5.93**	**1.30**	**5.10**	**4.88**	**6.28**	1.96	4.82	1.85	46.15
1920	2.82	5.69	4.20	5.02	3.20	6.82	3.09	1.23	3.69	1.16	5.27	5.79	47.98
Av. 26 yrs.	3.25	3.29	3.80	3.52	3.13	3.18	3.77	3.42	3.64	2.97	3.16	3.29	40.42

RAINFALL AT WALTHAM, MASS. Elevation, 20 feet.

(Water Works Pumping Station.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1880	3.10	3.88	3.03	2.14	1.69	1.06	8.32	4.38	1.64	3.06	2.20	1.39	35.89
1881	2.81	4.48	5.40	1.76	3.47	6.26	4.27	0.96	2.49	3.04	3.53	3.45	41.92
1882	3.64	3.67	2.48	2.51	5 20	1.90	2.52	1.32	9.59	2.28	0.73	2.17	38.01
1883	3.16	3.92	2.26	3.12	4.78	2.86	3.76	0.38	0.97	6.08	2.32	2.60	36.21
1884	4.29	6.26	4.19	3.61	2.91	3.54	5.27	4.55	0.63	2.67	1.95	4.76	44.63
1885	4.99	3.15	0.48	3.52	3.41	4.24	2.53	6.12	1.56	4.70	6.02	1.82	42.54
1886	5.12	7.83	3.06	1.76	3.28	1.33	2.72	3.12	3.14	3.10	4.74	3.13	42.33
1887	5.48	5.14	5.01	3.31	1.27	2.62	4.33	4.75	0.78	2.98	3.10	4.30	43.07
1888	4.26	3.58	5.63	3.18	4.48	1.95	1.70	6.91	9.28	5.09	7.53	5.99	59.58
1889	6.73	1.50	1.87	4.43	5.23	3.33	10.63	3.38	4.34	3.96	6.20	2.66	54.26
1890	2.18	2.97	5.89	2.48	5.76	2.59	2.13	3.05	5.50	10.28	1.35	5.05	49.23
1891	6.11	5.37	4.97	3.05	1.68	3.83	2.97	4.66	2.69	3.61	2.60	2.83	44.37
1892	3.76	2.07	2.97	0.91	6.11	4.30	3.27	4.00	2.48	3.15	3.86	1.25	38.13
1893	2.13	4.50	2.62	3.18	4.15	2.53	2.83	6.79	1.75	4.05	2.01	4.38	40.92
1894	1.66	1.53	1.08	2.24	4.61	0.10	3.00	1.37	2.04	4.72	2.66	3.46	28.47

RAINFALL AT WALTHAM, MASS. — *Continued.*

(Water Works Pumping Station.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1895	3.38	1.70	2.38	4.23	2.07	4.13	4.49	5.01	2.45	10.73	5.60	2.07	48.24
1896	2.03	6.03	3.36	1.50	1.88	2.55	2.72	2.37	7.74	3.41	3.25	2.06	38.90
1897	2.64	2.10	3.09	2.72	4.71	5.03	4.23	4.77	2.85	0.15	6.62	3.65	42.56
1898	4.48	5.30	1.11	6.36	3.44	1.73	5.68	7.18	1.80	7.42	5.62	3.21	53.33
1899	4.34	3.11	6.28	1.55	1.70	3.38	2.39	2.97	4.91	2.73	2.54	1.60	37.50
1900	4.54	8.54	5.21	2.36	3.52	2.99	2.70	2.30	3.60	4.28	5.22	2.81	48.07
1901	1.36	0.84	6.89	8.11	7.95	1.31	5.50	4.85	4.17	2.74	3.16	8.10	54.98
1902	1.89	6.32	3.75	4.52	1.18	2.53	4.02	3.80	4.81	4.85	1.12	4.48	43.27
1903	3.89	3.90	6.92	3.84	1.00	8.53	3.93	3.90	1.91	4.55	1.69	2.49	46.55
1904	4.30	2.62	2.58	9.64	3.25	3.14	1.69	3.54	7.01	1.88	1.96	2.78	44.39
1905	5.11	1.12	3.46	3.13	1.88	5.33	2.11	3.02	7.64	1.24	2.42	3.76	40.22
1906	2.59	2.76	6.02	2.54	5.22	2.83	5.11	2.58	2.95	3.04	2.99	4.93	43.56
1907	2.88	1.89	1.51	3.33	3.40	2.67	1.48	1.66	8.92	3.49	6.89	3.03	41.15
1908	3.83	4.05	3.52	1.97	3.99	1.14	3.53	4.23	0.90	3.07	0.87	2.91	34.01
1909	4.21	5.59	3.91	4.57	1.82	2.96	1.59	3.17	4.94	1.14	3.47	4.37	41.74
1910	5.11	4.95	0.82	2.38	1.52	4.59	2.33	1.14	2.99	1.60	4.33	2.21	33.97
1911	2.91	2.99	3.16	2.42	0.67	3.92	4.83	5.03	3.90	2.97	4.77	4.35	41.92
1912	3.16	2.75	6.27	4.26	5.04	0.31	4.38	2.82	1.93	2.56	3.20	5.62	42.30
1913	3.16	2.94	5.74	4.42	4.35	1.08	3.29	4.95	3.99	6.19	2.43	3.15	45.69
1914	3.31	2.17	4.69	5.51	2.78	1.92	2.46	4.88	0.07	1.81	2.47	3.51	35.58
1915	6.57	3.19	0.00	3.76	1.49	1.81	9.87	5.50	0.92	2.80	2.93	5.09	43.93
1916	1.16	4.77	2.26	4.33	3.03	5.79	3.31	2.10	1.30	1.20	1.85	2.78	33.88
1917	2.88	2.53	3.59	2.41	4.98	4.43	0.73	4.47	2.35	5.50	0.83	2.16	36.86
1918	3.01	3.57	1.74	2.84	2.00	2.68	2.99	1.64	9.52	1.02	2.08	3.06	36.15
1919	4.09	3.12	4.34	2.57	5.77	1.32	5.21	6.09	7.44	2.24	6.20	1.79	50.18
1920	2.25	5.86	4.65	5.77	3.55	7.28	1.78	2.23	3.38	1.39	6.01	4.85	49.00
Av. 41 yrs.	3.62	3.77	3.62	3.47	3.42	3.12	3.72	3.71	3.74	3.58	3.45	3.42	42.64

RAINFALL AT WAREHAM, MASS. Elevation, 60 feet.

(Onset Water Company.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1917	...	...	...	...	...	...	...	3.43	2.51	3.97	0.79	1.58	....
1918	3.06	2.94	2.32	4.48	0.91	4.80	2.28	2.07	5.05	0.98	2.45	4.25	35.59
1919	5.74	3.44	4.92	3.81	3.72	3.00	9.16	6.03	4.93	2.94	4.59	2.97	55.25
1920	3.49	7.12	6.35	5.49	5.15	7.87	1.96	2.58	2.26	2.51	3.63	4.42	52.83
Av. 3 yrs.	4.10	4.50	4.53	4.59	3.26	5.22	4.47	3.56	4.08	2.14	3.56	3.88	47.89

RAINFALL AT WARREN, MASS. Elevation, 650 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1911	...	...	...	...	...	...	...	...	...	4.02	3.98	...	....
1912	...	...	...	5.10	5.64	0.62	2.03	2.64	1.46	1.48	4.36	4.43	....
1913	3.88	2.33	5.60	4.71	3.91	0.92	1.48	3.37	3.18	6.03	3.39	1.70	40.50
1914	2.76	3.88	4.86	4.38	3.08	2.19	3.41	3.60	0.25	1.64	2.53	2.51	35.09
1915	5.41	3.74	0.21	1.14	**1.97**	**2.06**	**8.52**	**5.49**	**1.62**	**2.65**	**2.78**	**3.91**	39.50
1916	1.52	5.23	2.31	3.60	3.81	4.73	7.01	3.43	3.90	1.14	3.29	2.82	42.79
1917	2.95	2.79	3.59	1.50	3.89	4.04	0.89	5.41	1.24	5.92	1.62	1.52	35.36
1918	2.78	3.76	1.76	3.27	1.52	4.69	2.76	3.13	6.03	1.71	2.78	2.61	36.80
1919	3.43	3.24	5.44	2.60	4.62	1.12	7.56	3.43	7.18	**2.53**	**6.32**	**1.83**	49.30
1920	**2.09**	**5.14**	**8.78**	**5.61**	**3.68**	6.89	5.55	4.21	5.18	0.85	4.63	4.80	57.41
Av. 8 yrs.	3.10	3.76	4.07	4.61	3.31	3.33	3.39	4.01	3.57	2.81	3.42	2.71	42.09

RAINFALL AT WEBSTER, MASS. Elevation, 450 feet.
(Slater & Sons Mill.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.41	2.49	5.02	3.90	3.41	1.85	2.87	3.20	0.35	2.00	2.52	2.71	33.73
1915	6.75	4.99	0.10	1.64	3.40	1.84	6.59	6.44	1.48	2.47	2.13	4.88	42.71
1916	1.64	5.15	3.12	3.61	3.52	5.70	4.47	1.80	2.97	1.99	1.65	3.24	38.86
1917	2.91	3.95	3.88	1.72	3.73	4.76	1.61	6.75	1.56	4.77	0.59	2.49	38.72
1918	2.87	3.34	2.43	4.28	1.67	4.54	2.40	2.45	10.70	1.30	2.74	2.93	41.65
1919	4.07	3.49	5.34	3.70	4.39	3.38	3.16	4.90	5.59	2.33	5.37	2.76	48.48
1920	3.25	4.73	4.55	5.96	5.04	6.96	2.63	2.36	5.03	1.17	5.37	6.04	53.09
Av. 41 yrs.	3.64	3.92	4.12	3.28	3.35	3.11	3.63	3.76	3.57	3.30	3.30	3.74	42.72

RAINFALL AT WELLESLEY COLLEGE, MASS. Elevation, 160 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1886	**6.54**	8.82	3.50	2.39	3.16	1.37	5.28	3.37	3.07	3.08	4.55	5.33	50.46
1887	7.10	5.33	5.06	3.86	1.32	3.92	5.25	3.51	1.36	2.88	1.98	4.08	45.65
1888	4.41	3.72	6.41	2.96	2.14	1.06	4.17	6.72	9.05	4.68	7.92	6.83	60.07
1889	5.42	1.79	4.95	5.36	4.62	3.43	9.21	4.37	3.80	4.03	6.39	2.68	56.05
1890	2.50	2.82	8.20	2.86	5.69	2.06	1.88	2.69	7.62	9.95	**1.24**	2.74	50.25
1891	4.98	6.45	4.80	3.51	1.63	2.56	3.54	5.38	3.26	3.47	2.71	3.33	45.62
1892	3.60	2.95	2.87	0.83	4.68	2.96	3.35	5.37	2.57	1.71	5.18	1.11	37.18
1893	2.72	5.65	3.74	3.75	5.72	2.03	1.97	6.19	1.88	3.39	2.21	4.66	43.91
1894	4.39	4.97	1.24	3.89	4.06	...	...	...	...	...	4.07	3.12	....
1895	3.99	...	...	...	...	...	...	...	...	...	...	...	....
Av. 8 yrs.	4.66	4.69	4.94	3.19	3.62	2.42	4.33	4.71	4.08	4.15	4.02	3.84	48.65

RAINFALL AT WENHAM LAKE (BEVERLY), MASS. Elevation, 60 feet.
(Salem Water Works Pumping Station.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.12	2.57	2.94	5.77	2.25	1.61	2.16	2.57	0.41	1.32	2.63	2.86	30.21
1915	5.40	2.99	0.13	1.80	1.22	1.80	8.89	6.14	0.90	2.82	2.57	3.78	38.44
1916	1.28	3.04	2.28	3.81	3.53	4.99	2.90	2.03	2.60	0.81	1.98	3.49	32.74
1917	3.13	2.49	3.66	2.52	4.01	4.96	1.25	3.10	1.48	5.44	1.19	1.54	34.77
1918	2.42	2.83	2.88	3.18	0.67	2.94	3.04	2.53	8.70	1.02	2.45	3.28	35.94
1919	3.45	3.08	2.93	2.41	5.62	0.89	4.47	5.46	6.96	2.54	5.62	1.36	44.79
1920	2.35	4.67	3.05	2.10	2.99	6.47	1.66	2.08	4.02	0.79	5.24	3.87	39.29
Av. 47 yrs.	3.43	3.32	3.66	3.53	3.45	3.46	3.75	3.76	3.51	3.62	3.91	3.27	42.67

RAINFALL AT WESTBOROUGH, MASS. Elevation, 298 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.50	4.94	5.80	5.06	3.32	2.23	5.76	4.31	0.25	1.65	3.00	3.08	41.90
1915	**6.83**	**4.12**	**0.07**	**2.51**	**1.92**	**4.09**	11.43	6.06	1.46	2.77	2.88	4.98	49.12
1916	1.46	5.60	2.84	3.72	3.58	5.79	5.14	1.73	2.32	1.66	2.04	3.00	38.88
1917	1.97	**2.77**	2.18	2.04	4.93	4.33	1.11	7.42	1.36	6.86	1.00	3.15	39.12
1918	3.34	2.50	3.69	3.63	**2.41**	5.07	4.98	**2.76**	10.31	1.19	3.19	3.21	46.28
1919	3.66	3.43	5.26	3.39	5.93	2.54	4.15	3.81	6.03	1.88	6.92	1.80	48.80
1920	3.14	7.26	4.60	5.11	3.50	7.74	2.27	2.06	2.68	3.44	6.80	5.10	53.70
Av. 46 yrs.	3.68	4.02	4.23	3.41	3.34	3.28	3.65	3.94	3.37	3.70	3.75	3.47	43.84

RAINFALL AT WEST BROOKFIELD, MASS. Elevation, 630 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Dec	Nov	Annual
1913	3.31	2.34	5.81	4.81	3.79	1.39	1.25	2.69	3.37	6.05	3.35	1.95	40.11
1914	2.84	3.88	3.79	4.05	3.23	2.38	2.84	4.49	0.22	1.78	2.07	3.01	34.58
1915	5.78	3.58	0.15	1.27	1.97	2.06	8.52	5.49	1.62	2.65	2.78	3.91	39.78
1916	1.76	5.08	2.77	3.15	3.84	6.16	7.27	2.97	3.77	1.42	3.43	3.51	45.13
1917	3.08	3.03	3.75	1.65	3.78	5.15	1.20	7.30	1.30	6.66	1.95	1.02	39.87
1918	2.49	4.29	2.01	3.15	1.38	4.96	5.00	3.25	6.18	1.79	2.60	2.30	39.40
1919	3.45	3.25	4.75	2.77	6.44	0.48	8.30	3.36	9.00	2.57	5.95	1.97	52.29
1920	2.09	5.14	8.78	5.61	3.68	6.11	5.05	2.30	6.63	0.74	4.29	5.64	56.06
Av. 8 yrs.	3.10	3.82	3.98	3.31	3.51	3.59	4.93	3.98	4.01	2.96	3.30	2.91	43.40

RAINFALL AT WESTFIELD, MASS. Elevation, 475 feet.
(West Parish Filters, Springfield Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.56	4.07	5.87	6.27	2.95	2.88	3.13	2.54	0.24	3.08	3.55	3.66	41.80
1915	7.52	4.80	0.27	3.38	2.08	4.20	5.23	8.22	2.05	2.45	3.89	6.91	51.00
1916	2.01	6.75	3.72	3.50	3.48	5.27	4.44	2.11	6.72	1.54	3.62	3.91	47.07
1917	4.24	4.15	4.89	2.32	4.84	4.98	3.77	5.04	0.60	9.29	1.03	4.26	49.41
1918	4.27	3.59	2.37	3.11	2.18	3.84	1.67	4.11	6.07	1.48	3.32	4.19	40.20
1919	1.87	3.72	5.96	2.85	7.08	1.55	5.83	2.86	5.44	2.27	7.23	2.26	48.92
1920	2.50	5.63	4.24	6.61	2.68	8.73	4.19	8.59	8.72	0.80	6.75	6.85	66.29
Av. 15 yrs.	3.56	4.09	3.73	3.97	3.86	3.66	3.46	4.39	4.31	4.08	3.86	4.10	47.07

RAINFALL AT WESTMINSTER, MASS. Elevation, 980 feet.
(Meetinghouse Pond, Fitchburg Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1915	...	...	...	...	...	...	...	...	...	...	...	6.10	....
1916	1.80	5.47	3.25	3.66	3.86	8.25	5.98	2.32	3.72	0.82	2.52	2.40	44.05
1917	1.88	2.90	3.17	1.97	4.90	7.10	1.00	4.54	2.60	7.11	1.16	4.50	42.83
1918	2.80	3.97	2.15	1.87	2.58	5.45	2.75	2.94	8.81	1.99	2.77	2.06	40.14
1919	3.31	2.27	5.47	2.20	7.26	1.10	5.52	2.47	5.88	2.63	6.45	1.76	46.32
1920	2.80	4.61	4.82	6.95	4.15	4.67	3.92	2.85	8.12	1.10	5.30	4.82	54.11
Av. 5 yrs.	2.52	3.85	3.77	3.33	4.55	5.31	3.83	3.02	5.83	2.73	3.64	3.11	45.49

RAINFALL AT WESTMINSTER, MASS. Elevation, 880 feet.
(Wachusett Lake, Fitchburg Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	...	...	...	...	...	...	...	...	...	...	...	4.47	....
1915	6.70	3.81	0.04	1.98	1.67	1.47	12.01	9.49	1.85	3.35	3.66	6.83	52.86
1916	1.35	6.35	3.09	4.14	4.29	7.25	4.86	2.19	4.09	1.41	3.09	2.58	44.69
1917	2.86	2.99	4.61	1.36	5.63	4.84	0.95	1.67	2.54	7.26	0.93	4.99	40.63
1918	3.94	3.42	3.05	2.84	3.99	5.20	2.78	2.56	8.11	1.59	2.78	2.13	42.39
1919	3.61	2.73	5.95	2.23	7.51	1.10	4.02	3.38	7.79	2.68	6.87	1.74	49.61
1920	2.43	6.28	4.58	6.65	3.47	5.45	3.40	2.32	6.53	0.85	6.44	5.82	54.22
Av. 6 yrs.	3.48	4.26	3.55	3.20	4.43	4.22	4.67	3.60	5.15	2.86	3.96	4.02	47.40

RAINFALL AT WESTON, MASS. Elevation, 60 feet.
(Stony Brook Reservoir, Cambridge Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.43	3.34	4.97	5.37	2.69	1.79	2.50	4.49	0.17	1.69	2.50	3.41	36.35
1915	6.23	3.24	T	3.07	1.62	1.89	9.54	5.69	1.03	2.90	2.77	5.21	43.19
1916	1.18	5.69	4.22	4.28	3.28	5.62	3.76	2.29	1.39	1.28	1.96	3.24	38.19
1917	3.56	2.13	4.32	2.70	4.93	4.47	0.98	4.86	2.23	6.00	1.20	2.62	40.00
1918	3.00	3.71	2.14	4.07	1.29	2.86	3.30	1.29	9.39	1.17	2.18	3.38	37.78
1919	3.95	3.12	4.60	2.72	5.81	1.39	6.48	4.76	7.42	2.24	5.94	2.06	50.49
1920	3.32	5.30	3.90	5.54	3.40	7.00	1.75	2.12	4.61	1.34	5.88	5.03	49.19
Av. 31 yrs.	3.63	3.79	4.25	3.56	3.25	3.10	3.42	3.74	3.77	3.27	3.41	3.62	42.81

RAINFALL AT WILLIAMSBURG, MASS. Elevation, 550 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1913	3.36	2.64	5.85	4.26	4.35	1.16	1.83	2.10	3.32	6.05	2.93	2.90	40.75
1914	2.85	2.07	3.99	5.66	3.27	2.16	3.09	4.04	0.28	2.14	2.84	3.16	35.55
1915	5.72	4.75	0.11	2.65	1.34	2.83	9.34	8.06	1.46	2.58	3.18	8.22	50.24
1916	1.83	5.20	2.36	3.28	3.09	5.36	4.44	2.59	5.62	1.71	3.71	2.71	41.90
1917	3.82	1.87	3.92	1.96	4.80	5.24	3.08	4.20	0.91	8.46	1.96	1.99	42.21
1918	2.99	2.94	1.81	3.15	2.70	4.27	2.78	2.45	6.33	1.43	2.56	2.51	35.92
1919	2.11	3.41	4.56	2.54	8.17	1.62	4.36	3.20	4.29	2.52	6.03	1.92	44.73
1920	2.02	4.37	3.28	6.15	3.17	5.87	2.51	4.25	7.62	1.23	6.23	6.87	53.57
Av. 8 yrs.	3.09	3.41	3.23	3.82	3.86	3.56	3.83	3.86	3.73	3.26	3.68	3.78	43.11

RAINFALL AT WILLIAMSTOWN, MASS. Elevation, 711 feet.
(Williams College.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.31	1.94	3.90	5.65	1.94	2.21	4.33	5.10	0.53	1.72	2.14	1.94	33.71
1915	3.45	4.14	0.41	2.12	1.46	1.73	9.37	4.47	3.44	2.71	2.03	5.03	40.36
1916	2.05	1.53	3.51	2.48	3.52	3.62	5.30	2.45	5.20	1.79	4.24	4.28	39.97
1917	2.84	2.17	2.54	2.54	3.20	3.52	2.11	4.11	1.67	5.05	0.82	1.85	32.42
1918	1.89	1.86	2.37	2.45	4.04	3.04	1.78	2.31	6.44	2.75	1.83	3.42	34.18
1919	2.68	1.29	7.39	3.18	5.81	2.23	3.03	4.51	6.43	3.32	5.05	1.55	46.47
1920	1.54	3.99	3.30	4.72	1.85	4.15	3.89	4.96	4.91	2.22	4.17	4.45	44.15
Av. 44 yrs.	2.59	2.32	2.81	2.83	3.15	3.50	4.30	4.28	3.38	3.09	2.98	3.05	38.28

RAINFALL AT WINCHENDON, MASS. Elevation, 975 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.23	2.38	4.29	4.95	2.19	3.01	4.06	3.42	0.68	1.30	2.48	3.13	35.12
1915	5.55	4.10	0.05	4.01	1.59	1.90	8.88	5.43	1.20	3.03	2.38	5.90	44.02
1916	1.56	4.68	2.70	2.79	3.35	4.56	6.32	3.93	8.01	1.50	3.67	2.86	45.93
1917	3.62	2.28	3.63	1.70	3.76	5.47	2.92	8.64	1.00	5.91	1.83	2.38	43.14
1918	2.77	3.72	1.93	3.13	2.06	4.92	2.06	3.37	7.99	1.52	2.91	3.74	40.12
1919	3.16	2.66	4.89	2.40	6.55	1.06	4.99	2.56	5.24	3.27	6.34	1.71	44.83
1920	2.24	5.18	4.19	6.66	2.95	5.69	3.66	4.10	8.05	1.13	4.30	6.64	54.79
Av. 27 yrs.	2.97	2.99	3.54	3.19	3.15	3.46	4.02	4.18	4.18	3.04	3.23	3.47	41.42

RAINFALL AT WINCHESTER, MASS. Elevation, 90 feet.
(North Reservoir.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1913	...	...	...	...	3.87	1.82	3.01	4.16	2.82	7.13	2.31	2.83	....
1914	3.58	2.80	4.61	6.19	2.68	2.15	2.56	3.44	0.06	1.39	2.79	3.03	35.28
1915	5.10	3.79	0.00	3.30	1.60	1.77	10.66	6.65	0.76	3.24	2.39	4.34	43.60
1917	2.96	1.48	2.42	3.25	4.27	3.65	1.26	7.48	1.49	6.03	1.00	2.40	37.69
1918	1.25	1.90	2.20	1.10	0.32	3.05	6.83	1.85	10.28	0.77	2.54	2.93	35.02
1919	3.50	2.99	2.57	1.08	3.16	1.62	2.19	4.04	5.41	1.12	8.26	1.58	37.52
1920	0.95	2.80	2.30	3.64	2.80	3.62	2.15	2.66	2.12	3.20	5.86	2.68	34.78
Av. 33 yrs.	3.72	3.53	3.74	3.15	3.29	3.03	3.28	3.82	3.43	3.42	3.46	3.44	41.31

RAINFALL AT WORCESTER, MASS. Elevation, 400 feet.
: (Worcester Sewage Disposal Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.20	2.72	4.32	3.81	2.61	1.86	3.35	3.38	0.10	1.45	1.86	3.16	31.82
1915	6.16	3.11	0.00	1.65	1.64	1.51	7.67	5.85	1.48	2.62	2.81	5.19	39.69
1916	1.59	7.50	4.20	3.96	3.69	5.91	6.09	1.40	3.17	1.76	2.87	3.03	45.17
1917	2.93	3.20	4.50	1.67	3.57	4.88	1.22	6.27	1.04	6.93	0.93	2.78	39.92
1918	3.25	2.56	2.83	2.75	2.23	4.44	4.13	2.52	9.59	1.13	2.80	3.23	41.46
1919	3.82	2.88	6.62	3.16	5.40	1.75	5.46	4.46	6.38	2.12	6.41	1.78	50.24
1920	2.81	4.90	3.66	5.02	4.51	6.00	2.26	2.51	5.77	0.96	5.42	5.61	49.43
Av. 25 yrs.	3.21	3.65	4.04	3.38	3.08	3.36	3.57	3.51	3.83	2.89	3.26	3.58	41.36

RAINFALL AT WORCESTER, MASS. Elevation, 518 feet.
(U. S. Weather Bureau.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1892	...	...	...	...	6.34	2.22	4.70	5.51	1.74	0.58	5.82	1.00	....
1893	2.68	6.91	3.90	3.56	6.95	2.54	1.38	3.27	1.98	3.68	2.28	4.65	43.78
1894	2.98	2.84	1.41	3.60	4.63	0.73	3.75	1.47	3.16	3.96	**2.84**	**3.02**	34.39
1895	2.12	1.14	2.67	4.27	2.46	3.44	4.10	5.19	2.39	8.02	8.69	4.03	48.52
1896	1.93	5.69	6.90	1.23	2.78	2.75	3.55	2.56	7.45	3.90	3.02	2.25	44.01
1897	3.26	2.95	4.09	2.65	4.52	4.13	7.25	3.21	1.85	1.05	6.92	6.04	47.92
1898	4.28	4.78	2.37	4.19	**2.22**	**2.10**	**2.99**	**7.34**	3.05	5.95	8.36	3.04	50.67
1899	3.83	5.25	7.29	2.13	1.25	3.89	3.57	**1.62**	4.20	1.34	2.60	1.69	38.66
1900	3.13	7.45	6.27	2.56	3.47	3.98	3.49	2.76	2.21	**1.85**	**4.69**	2.50	44.36
1901	1.49	0.67	5.33	6.81	5.53	0.93	4.30	3.34	2.94	3.35	2.15	7.41	44.25

RAINFALL AT WORCESTER, MASS. — *Continued.*
(U. S. Weather Bureau.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1902	1.97	2.62	3.75	2.59	1.64	2.08	4.29	3.58	2.65	5.00	0.66	5.03	35.86
1903	2.75	2.87	5.15	2.28	0.88	7.44	3.01	3.31	1.14	3.21	1.89	2.30	36.23
1904	3.16	1.68	2.34	5.95	2.06	2.78	3.13	3.80	3.65	0.96	0.81	2.20	32.52
1905	3.73	1.27	2.65	2.46	1.07	4.73	2.44	2.15	6.16	1.47	2.16	2.86	33.15
1906	2.05	2.05	4.50	2.22	5.44	3.69	6.14	2.14	2.48	3.39	1.86	3.46	39.42
1907	2.69	1.61	1.37	2.39	2.72	2.73	2.37	1.25	9.46	4.79	4.57	4.16	40.11
1908	2.19	3.38	3.19	1.56	4.83	1.12	4.36	7.03	1.24	1.73	0.93	2.62	34.18
1909	2.39	4.94	3.43	4.80	2.63	3.00	1.14	2.29	4.07	1.08	1.49	3.32	34.58
1910	5.10	3.76	0.92	2.70	1.85	5.03	2.13	3.61	4.32	1.42	2.90	1.82	35.56
1911	2.40	2.21	3.84	2.17	3.66	1.96	2.92	4.77	5.74	3.53	3.27	2.45	38.92
1912	2.54	2.00	4.23	4.98	4.81	0.66	4.92	3.88	1.98	1.64	3.92	4.10	39.66
1913	2.60	2.43	4.27	3.16	3.68	2.14	2.56	3.00	5.04	4.26	2.20	2.07	37.41
1914	2.40	1.52	3.73	2.94	2.68	1.80	4.14	4.17	0.21	1.47	2.57	3.33	30.96
1915	5.74	3.39	0.04	1.50	3.24	2.19	7.01	5.84	1.02	2.44	2.35	3.49	38.25
1916	1.78	3.97	2.58	3.19	3.16	5.44	4.63	2.65	3.94	1.19	2.20	2.93	37.66
1917	2.44	2.18	4.18	1.62	2.88	4.03	1.12	5.55	0.90	5.51	1.07	1.37	32.85
1918	2.34	2.39	2.34	1.89	1.62	3.88	3.64	2.31	6.01	2.35	2.79	3.15	34.71
1919	2.99	2.05	4.87	2.03	3.86	1.61	4.72	3.49	3.89	1.96	4.87	2.06	38.40
1920	1.86	3.20	4.01	4.46	2.83	4.24	2.45	1.71	4.24	0.53	3.99	4.80	38.32
Av. 28 yrs.	2.82	3.11	3.63	3.07	3.19	3.04	3.63	3.47	3.48	2.89	3.14	3.29	38.76

RAINFALL AT WORTHINGTON, MASS. Elevation, 1 500 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1917	3.44	1.92	3.69	2.05	5.23	6.51	2.20	3.16	0.55	7.14	0.84	3.25	39.98
1918	3.85	3.52	2.56	1.99	2.62	4.44	2.98	2.92	6.09	1.99	2.83	3.61	39.40
1919	2.11	2.95	5.92	2.53	9.24	1.78	6.18	3.86	4.93	2.68	6.27	1.43	49.88
1920	2.50	5.42	4.66	6.86	2.01	6.75	2.43	5.14	8.52	1.75	6.51	6.20	58.75
Av. 4 yrs.	2.98	3.45	4.21	3.35	4.78	4.87	3.45	3.77	5.02	3.39	4.11	3.62	47.00

RHODE ISLAND.

RAINFALL AT BLOCK ISLAND, R. I. Elevation, 26 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.64	2.39	3.45	3.77	3.51	1.91	4.27	3.71	0.29	3.33	2.72	4.98	36.97
1915	8.25	3.38	0.33	1.83	3.11	1.00	1.59	4.49	1.35	5.18	2.24	4.91	37.66
1916	1.69	3.59	1.73	3.96	3.20	3.36	7.37	0.57	0.82	2.48	2.39	2.84	34.00
1917	2.98	2.70	4.85	2.14	3.01	2.51	2.90	0.73	2.80	5.02	0.19	1.90	31.73
1918	2.80	2.09	2.54	3.41	2.89	4.85	1.75	1.48	3.31	0.86	1.37	4.44	31.79
1919	3.76	3.81	4.16	2.49	3.42	2.45	4.94	4.87	3.78	3.13	3.54	3.53	43.88
1920	2.75	4.00	4.38	5.24	3.29	5.75	2.45	2.57	0.67	1.48	3.44	6.32	42.34
Av. 40 yrs.	3.83	3.89	3.99	3.62	3.55	2.64	3.17	3.33	2.78	3.62	3.65	3.89	41.96

RAINFALL AT BRISTOL, R. I. Elevation, 53 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.16	3.21	4.31	3.74	2.41	0.60	3.81	2.25	0.95	3.17	2.35	4.38	34.34
1915	10.10	3.85	0.02	1.94	1.73	1.99	1.99	4.54	1.66	2.00	2.24	5.24	37.30
1916	1.11	6.28	3.01	3.93	4.16	3.62	10.40	1.45	1.24	2.42	2.54	2.71	42.87
1917	2.74	2.32	4.76	2.75	5.00	4.25	1.18	3.69	2.91	5.09	0.39	2.27	37.35
1918	2.58	2.37	2.23	4.91	1.45	2.92	2.35	3.48	4.50	0.91	2.00	3.62	33.32
1919	4.54	4.19	4.26	4.03	4.50	4.47	5.16	6.87	6.58	2.30	3.84	2.93	53.67
1920	3.59	6.67	4.18	5.26	3.69	7.95	1.55	2.81	3.16	1.63	4.43	4.42	49.34
Av. 34 yrs.	4.02	3.84	4.05	3.70	3.41	2.88	3.05	3.38	3.15	3.39	3.41	3.77	42.05

RAINFALL AT BURRILLVILLE, R. I. Elevation, 400 feet.

(Wallum Pond.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.03	2.85	3.99	5.41	3.58	1.63	3.70	4.52	0.39	2.40	2.80	2.58	36.88
1915	7.14	5.46	0.17	1.87	3.47	2.27	8.69	6.46	0.92	3.21	2.61	3.51	45.78
1916	1.64	3.10	2.20	3.27	4.36	6.15	4.70	2.27	3.17	1.74	3.63	3.40	39.63
1917	3.75	2.00	3.56	1.78	4.23	5.06	1.94	5.70	2.03	6.25	1.03	3.10	40.43
Av. 8 yrs.	4.04	3.13	3.72	3.26	3.33	3.04	3.89	4.42	2.11	3.47	3.20	3.31	40.92

RAINFALL AT CRANSTON (FISKEVILLE), R. I. Elevation, 260 feet.

(Providence Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1916	...	...	3.02	2.96	5.18	4.90	10.10	1.82	0.93	3.13	2.17	3.32	....
1917	3.84	2.33	4.26	2.71	4.12	4.56	1.36	6.78	3.23	7.14	0.42	3.37	44.12
1918	3.98	3.43	2.21	4.54	2.31	3.96	4.73	4.54	9.62	0.87	2.65	3.80	46.64
1919	5.06	3.65	5.74	4.17	6.13	3.16	3.91	5.95	5.43	2.47	5.19	2.50	53.36
1920	3.30	5.81	5.02	6.33	4.45	8.26	3.57	3.14	2.97	1.57	5.65	5.49	55.56
Av. 4 yrs.	4.05	3.81	4.31	4.44	4.23	4.99	3.39	5.10	5.31	3.02	3.48	3.79	49.92

RAINFALL AT FOSTER (HOPKINS MILLS), R. I. Elevation, 450 feet.

(Providence Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1916	1.96	5.71	2.60	3.92	4.87	6.19	7.64	1.43	1.48	2.47	2.34	3.58	44.19
1917	3.92	2.34	4.76	2.72	4.31	4.72	1.34	6.48	2.32	6.63	0.53	3.47	43.54
1918	3.61	3.29	2.34	4.55	3.76	4.80	3.80	3.60	9.39	1.20	2.55	3.85	46.74
1919	5.13	3.60	6.03	4.57	6.22	3.32	6.51	6.52	6.18	2.35	4.74	2.78	57.95
1920	2.75	6.79	5.34	6.74	3.23	8.01	4.43	4.43	3.14	1.34	5.84	5.41	57.45
Av. 5 yrs.	3.47	4.35	4.21	4.50	4.48	5.41	4.74	4.49	4.50	2.80	3.20	3.82	49.97

RAINFALL AT GREENE, R. I. Elevation, 450 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.95	2.60	3.75	3.96	2.58	0.89	4.70	2.57	0.53	3.00	3.15	4.59	36.27
1915	8.59	4.79	0.08	1.26	2.10	1.21	5.59	6.34	1.11	2.44	2.84	5.16	41.51
1916	1.24	5.26	2.25	3.15	4.48	5.32	8.53	2.34	1.33	2.61	2.28	3.08	41.87
1917	2.89	2.20	4.73	1.74	3.33	4.27	1.66	7.52	2.87	5.71	0.28	2.65	39.85
1918	3.34	3.55	1.92	4.38	2.66	5.05	4.12	3.43	8.11	1.10	2.38	3.26	43.30
1919	4.44	3.14	5.83	3.54	4.58	2.75	5.58	5.88	6.34	2.38	4.53	2.15	51.14
1920	2.74	5.57	4.70	4.94	4.05	7.30	4.31	2.79	2.83	1.76	5.56	5.33	51.88
Av. 11 yrs.	3.78	3.64	3.62	3.56	3.13	3.08	3.99	4.08	3.23	2.91	3.52	3.83	42.37

RAINFALL AT HOPE, R. I. Elevation, 200 feet.

(Clyde Print Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1888	4.70	3.50	5.90	0.45	5.04	0.90	2.10	5.77	7.25	5.65	7.40	4.25	52.91
1889	5.25	1.20	2.00	5.60	4.85	2.25	9.60	6.15	4.85	3.40	5.65	1.80	52.60
1890	1.50	1.38	6.09	1.75	5.85	3.25	1.73	4.60	6.65	10.55	0.70	3.00	47.05
1891	8.70	6.40	6.50	4.90	1.80	3.60	2.75	4.40	2.70	5.50	4.00	4.80	56.05
1892	7.05	1.15	5.39	1.15	5.00	1.90	1.47	4.70	1.90	1.85	6.47	1.50	39.53
1893	3.50	8.10	5.85	5.25	8.95	4.20	1.00	4.55	2.45	4.82	4.40	4.75	57.82
1894	4.50	3.75	1.15	4.30	4.15	0.25	0.95	1.75	2.67	8.55	4.70	5.53	42.25
1895	5.20	1.50	3.02	5.60	2.50	4.10	6.18	2.25	2.94	10.20	4.70	3.15	51.34
1896	2.60	5.60	8.10	1.00	4.00	4.90	2.45	3.30	10.10	3.50	3.90	2.20	51.65
1897	6.70	1.90	3.55	3.60	5.15	3.25	8.20	5.55	0.80	0.10	9.55	6 70	55.05
1898	3.20	6.80	3.10	7.50	4.70	2.20	7.65	6.10	2.30	8.80	7.10	3.20	62.65
1899	4.30	4.00	6.75	2.90	2.75	4.60	4.75	3.55	9.25	1.20	4.05	3.60	51.70
1900	5.85	9.75	7.15	1.75	5.56	1.78	2.70	2.30	3.75	4.35	5.80	4.65	55.39
1901	2.15	2.00	10.28	12.15	8.00	0.80	5.65	3.53	5.65	2.75	3.30	9.45	65.81
1902	3.10	7.80	8.35	4.80	1.80	4.95	3.37	2.70	6.45	5.40	1.80	7.30	57.82

RAINFALL AT HOPE, R. I. — *Continued.*
(Clyde Print Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1903	5.70	8.60	10.10	5.50	0.10	7.90	6.60	5.90	2.30	3.89	2.00	4.30	62.89
1904	6.45	3.10	3.15	9.65	2.68	3.60	1.28	6.70	5.11	2.18	2.40	4.91	51.21
1905	3.42	2.11	2.83	4.03	1.52	6.36	3.62	3.24	5.71	2.57	2.30	5.43	43.14
1906	3.40	3.75	5.65	4.38	5.71	3.80	5.64	2.53	3.03	4.59	2.84	5.05	50.37
1907	3.26	3.15	1.93	4.26	4.50	3.16	1.16	1.14	11.47	3.62	6.76	5.66	50.07
1908	4.82	5.78	4.07	1.79	5.38	1.77	5.60	5.33	1.55	3.32	1.15	4.51	45.07
1909	3.89	7.35	3.54	5.70	3.09	2.45	1.01	3.17	3.51	1.53	3.47	4.40	43.11
1910	4.69	3.75	1.72	1.90	2.61	3.49	2.44	3.76	2.66	1.61	5.01	2.30	35.94
1911	3.14	1.95	3.08	3.60	1.51	3.09	3.88	4.78	2.04	3.80	6.72	3.55	41.14
1912	3.55	2.63	7.66	4.25	4.07	0.49	1.30	3.72	2.43	2.20	3.76	6.14	42.20
1913	3.48	3.38	4.65	7.00	2.25	1.73	2.43	2.92	2.85	6.28	2.72	3.90	43.59
1914	4.01	2.95	5.10	4.23	2.35	0.84	5.13	2.11	0.70	3.32	3.35	5.57	39.66
1915	9.07	4.45	0.07	1.51	1.90	2.05	5.77	6.07	1.17	2.65	3.08	5.65	43.44
1916	1.61	4.30	3.01	3.86	4.64	4.95	10.34	1.76	0.95	3.00	2.35	3.25	44.02
1917	3.85	2.65	4.65	2.45	4.20	4.45	1.05	6.44	3.05	6.75	0.45	2.89	42.88
1918	3.80	3.75	2.20	4.53	2.25	3.95	4.45	4.25	9.35	0.85	2.67	3.62	45.67
1919	4.95	3.32	5.44	4.23	5.35	3.08	4.47	5.13	5.64	2.20	4.40	2.24	50.45
Av. 32 yrs.	4.42	4.12	4.75	4.24	3.88	3.13	3.96	4.07	4.16	4.09	4.03	4.35	49.20

RAINFALL AT HOPKINTON, R. I. Elevation, 120 feet.
(Hope Valley.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	4.63	2.30	5.19	4.15	2.28	0.83	4.90	2.91	0.47	4.01	2.73	4.67	39.07
1915	10.74	4.85	**0.29**	1.50	**3.00**	1.35	3.25	8.00	2.18	3.19	3.26	5.30	46.91
1916	1.37	5.94	3.07	3.56	4.37	5.25	8.81	2.28	1.14	3.76	2.65	3.00	45.20
1917	4.11	2.78	6.53	3.41	3.78	5.13	2.85	7.41	4.02	4.51	2.85	1.85	49.23
1918	3.91	3.50	5.32	5.32	3.51	4.69	3.74	2.48	6.85	1.82	3.47	4.84	49.45
1919	5.64	4.77	7.26	4.62	4.64	2.04	6.58	6.89	8.46	2.91	3.09	3.14	60.04
Av. 10 yrs.	5.04	3.85	4.73	4.16	3.36	2.92	4.25	4.46	3.24	3.56	3.77	4.28	47.62

RAINFALL AT KINGSTON, R. I. Elevation, 250 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.97	3.51	4.95	6.22	2.82	1.01	4.79	3.06	1.13	4.56	2.79	6.03	44.84
1915	11.43	4.87	0.23	1.85	2.64	1.36	2.28	7.74	3.02	3.84	2.86	6.35	48.47
1916	1.84	5.96	3.68	4.57	4.60	5.77	11.75	2.77	1.05	3.22	2.91	4.86	52.98
1917	4.05	3.38	6.22	3.01	5.48	5.25	1.71	2.85	3.80	6.46	0.41	2.30	44.92
1918	3.77	4.79	2.72	5.60	2.09	4.71	2.53	2.61	5.46	1.42	3.05	4.81	43.56
1919	5.96	5.06	5.76	4.43	6.88	2.52	5.29	8.33	7.61	3.03	4.17	3.51	62.55
1920	3.75	5.21	5.08	6.12	5.07	7.42	3.11	3.04	2.32	1.70	5.35	6.05	54.22
Av. 32 yrs.	4.96	4.70	5.07	4.74	4.20	3.31	3.57	4.13	3.60	4.27	4.25	4.83	51.63

RAINFALL AT NARRAGANSETT PIER, R. I. Elevation, 22 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.23	3.56	4.36	4.81	3.08	1.12	4.94	4.13	1.01	4.26	2.59	5.14	42.23
1915	8.97	4.00	0.34	1.54	3.10	2.03	2.02	6.76	1.77	4.65	2.37	4.93	42.48
1916	1.66	5.45	2.71	3.95	3.49	4.73	10.69	1.50	1.65	2.78	2.52	3.25	44.38
1917	3.86	4.10	5.83	2.94	3.95	3.51	1.79	3.64	3.81	5.52	0.34	2.23	41.52
1918	3.32	3.96	2.78	4.99	2.44	4.88	2.57	**2.48**	**3.90**	**0.88**	**1.68**	**4.03**	37.91
Av. 36 yrs.	4.40	4.16	4.42	3.93	3.81	2.72	3.23	3.87	3.23	3.94	3.79	4.04	45.54

RAINFALL AT PAWTUCKET, R. I. Elevation, 220 feet.
(Diamond Hill Reservoir, Board of Public Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	4.22	3.37	5.00	5.13	2.76	0.97	2.82	2.67	0.41	2.80	3.91	4.19	38.25
1915	7.60	4.44	0.07	2.32	1.72	3.22	8.81	5.05	0.52	2.87	2.51	5.39	44.52
1916	2.19	6.03	3.39	4.17	4.49	5.98	8.25	1.84	1.33	2.47	2.66	3.35	46.15
1917	3.37	2.87	5.27	3.09	4.66	4.91	0.95	8.15	2.46	6.77	0.43	3.42	46.35
1918	3.95	2.81	2.66	4.09	2.49	3.48	2.63	1.93	9.27	0.77	2.29	3.88	40.25
1919	4.81	3.43	5.53	3.28	5.25	1.95	5.99	4.64	5.36	2.32	3.73	2.24	48.53
Av. 19 yrs.	3.72	3.75	4.48	4.16	3.33	2.93	4.05	3.47	3.70	3.37	2.98	4.26	44.20

RAINFALL AT PAWTUCKET, R. I. Elevation, 40 feet.
(Filter Beds, Board of Public Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	4.42	3.76	5.15	5.02	2.38	0.75	3.45	2.76	0.57	3.08	2.82	4.57	38.73
1915	7.29	3.90	0.09	2.47	2.14	1.64	7.74	5.71	1.18	2.26	1.96	5.08	41.46
1916	1.64	6.66	3.06	3.63	4.73	5.53	7.69	1.10	0.83	3.21	2.00	3.24	43.32
1917	3.06	2.09	5.26	2.98	4.26	4.40	0.89	6.18	2.60	**6.29**	0.42	2.69	41.12
1918	3.95	2.93	2.70	4.60	2.75	3.91	3.84	2.38	9.06	0.61	2.49	3.92	43.14
1919	5.18	3.65	5.36	3.66	4.37	3.24	3.99	6.61	5.76	1.96	4.30	2.48	50.56
Av. 19 yrs.	4.28	4.16	4.37	4.05	3.17	3.13	3.54	3.55	3.60	3.21	2.79	4.60	44.45

RAINFALL AT PAWTUCKET, R. I. Elevation, 140 feet.
(Masonic Building, Board of Public Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	**4.55**	**3.59**	4.76	4.98	2.53	0.89	3.51	2.81	0.58	2.88	2.92	4.70	38.70
1915	7.54	3.76	0.07	2.87	2.25	2.13	8.47	5.77	1.10	2.20	2.54	5.05	43.75
1916	1.71	4.61	1.70	4.10	4.84	5.29	9.21	1.07	0.93	2.82	2.05	2.68	41.01
1917	3.02	1.93	4.29	2.34	4.42	4.96	1.01	6.30	2.67	6.47	0.35	2.33	40.09
1918	4.00	2.73	2.34	4.15	2.53	3.80	4.13	2.92	9.35	0.63	2.39	3.66	42.63
1919	5.11	3.56	5.11	3.50	4.35	1.51	4.04	6.45	6.55	1.93	4.95	2.40	49.46
Av. 19 yrs.	4.13	3.92	4.15	4.12	3.20	3.12	3.94	3.63	3.76	3.22	2.83	4.54	44.56

RAINFALL AT PAWTUCKET, R. I. Elevation, 90 feet.
(Pumping Station, Board of Public Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	4.39	3.72	4.83	4.89	2.35	0.80	3.40	2.66	0.55	2.80	2.85	4.50	37.74
1915	7.57	3.38	0.08	2.33	1.98	2.29	8.15	5.62	0.84	2.17	2.20	5.14	41.75
1916	1.57	6.48	3.45	3.72	4.42	4.70	8.41	1.85	0.83	2.73	2.14	3.51	43.81
1917	3.17	2.19	6.27	3 16	4.69	5.01	1.09	6.92	2.54	6.48	0.31	2.94	44.77
1918	3.71	2.56	2.73	4.55	2.42	3.08	3.52	2.34	8.82	0.63	2.27	3.83	40.46
1919	5.32	3.10	4.87	3.35	4.65	1.63	3.87	6.39	5.31	1.92	4.55	2.60	47.56
Av. 35 yrs.	4.32	4.41	4.25	3.75	3.76	2.85	3.87	4.04	3.72	3.67	3.56	4.22	46.42

RAINFALL AT PAWTUCKET, R. I.
(A. H. Keene.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	4.39	3.72	4.83	4.89	2.35	0.80	3.51	2.55	0.55	2.80	2.85	4.50	37.74
1915	7.72	3.23	0.08	2.32	1.99	2.29	8.15	5.62	0.84	2.17	2.20	5.14	41.75
1916	1.57	6.00	3.45	3.72	4.42	4.70	8.41	1.72	0.83	2.73	2.14	3.51	43.20
1917	3.17	2.19	6.27	3.16	4.69	5.01	1.09	5.83	2.54	6.48	0.31	2.94	43.68
1918	3.71	2.86	2.43	4.55	2.42	3.08	3.52	2.34	8.82	0.63	2.27	4.16	40.79
1919	4.99	3.10	4.87	3.35	4.65	1.63	3.87	6.39	5.31	1.82	4.65	2.60	47.23
Av. 19 yrs.	4.26	3.52	3.65	3.66	3.42	2.92	4.76	4.08	3.15	2.77	2.40	3.81	42.40

RAINFALL AT PROVIDENCE, R. I. Elevation, 162.5 feet.
(Hope Reservoir, City Engineer.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	4.17	3.50	4.28	4.75	2.31	0.72	3.69	2.69	0.65	3.07	2.74	4.11	36.68
1915	8.73	3.11	0.11	2.54	2.55	1.76	7.92	5.76	1.02	2.61	2.58	5.92	44.61
1916	2.33	7.09	3.85	4.94	4.79	5.20	7.95	1.32	1.05	2.92	2.51	3.93	47.88
1917	4.00	2.55	4.93	3.52	4.84	5.35	1.23	7.00	2.77	6.72	0.40	2.73	46.04
1918	3.79	3.32	2.18	4.60	2.28	3.99	5.58	2.63	9.79	0.53	2.45	3.98	45.12
1919	5.78	4.23	6.40	4.10	5.60	3.59	4.77	6.83	7.14	2.08	5.10	2.80	58.42
1920	3.03	5.92	4.85	5.84	6.30	8.14	3.38	3.54	2.33	1.65	5.53	4.99	55.50
Av. 89 yrs.	4.11	3.88	4.16	3.81	3.68	3.26	3.39	4.04	3.37	3.61	3.90	4.02	45.23

RAINFALL AT PROVIDENCE, R. I. Elevation, 275 feet.
(Fruit Hill Reservoir, Providence Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	4.24	3.79	4.69	5.02	2.05	0.61	3.58	3.07	0.44	2.70	2.68	4.47	37.34
1915	8.54	3.97	0.07	2.39	2.18	0.93	6.85	6.36	0.81	2.23	2.49	5.37	42.19
1916	1.54	5.35	2.68	3.53	5.24	5.68	6.85	0.81	0.81	2.58	1.84	3.65	40.56
1917	3.23	2.24	5.05	3.02	3.81	4.56	1.02	7.92	2.55	6.50	0.36	3.31	43.57
1918	3.99	3.01	2.20	3.99	2.44	4.11	2.65	2.58	9.32	0.66	2.27	3.39	40.61
1919	5.01	3.57	5.53	3.52	4.86	3.43	3.82	7.23	5.10	1.54	4.74	2.28	50.63
1920	3.15	5.78	3.80	5.60	4.38	7 82	3.38	2.90	2.22	1.22	5.45	4.63	50.33
Av. 12 yrs.	3.95	3.77	3.64	3.85	3.17	3.05	3.53	4.05	2.89	2.64	3.23	3.94	41.71

RAINFALL AT PROVIDENCE, R. I. Elevation, 25 feet.
(Pettaconsett Pumping Station, Providence Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	4.21	3.46	4.74	4.64	2.43	0.67	4.82	2.10	0.77	3.81	2.84	3.87	38.36
1915	9.52	4.19	0.00	1.85	1.94	2.00	5.52	5.63	1.44	2.62	2.60	4.80	42.11
1916	1.56	7.41	3.40	3.62	4.68	4.77	9.01	1.42	0.48	2.77	2.30	3.40	44.82
1917	3.39	2.32	5.52	2.87	4.07	4.50	1.48	6.68	3.23	5.91	0.32	3.25	43.54
1918	0.54	3.77	2.08	4.50	1.86	3.50	4.55	4.11	9.75	0.72	2.39	3.82	41.59
1919	4.86	3.74	5.66	4.04	4.66	4.10	3.87	5.72	5.93	2.53	4.58	2.29	51.98
1920	5.66	7.25	6.64	5.88	4.73	8.27	3.35	2.75	2.30	1.91	5.45	4.61	58.80
Av. 17 yrs.	4.62	4.32	4.36	4.00	3.10	3.29	3.58	3.98	2.91	3.64	3.97	4.06	45.83

RAINFALL AT PROVIDENCE, R. I. Elevation, 25 feet.
(Sewage Precipitation Works, City Engineer.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	4.05	3.12	4.21	4.39	2.19	0.66	3.76	1.93	0.74	3.40	2.89	3.85	35.19
1915	8.80	4.01	0.07	1.80	2.07	2.57	5.84	4.45	1.29	1.67	2.43	5.37	40.37
1916	1.60	5.90	2.80	3.99	4.10	4.79	7.91	1.05	0.81	2.45	2.07	3.90	41.37
1917	3.28	2.58	4.62	2.62	3.83	5.48	1.73	5.53	3.05	4.24	0.38	2.40	39.74
1918	3.44	3.71	2.43	4.79	2.07	3.24	4.57	3.64	10.22	0.72	2.22	3.22	44.27
1919	5.05	3.85	4.77	4.02	4.71	2.83	4.99	5.69	6.02	1.87	4 57	2.44	50.81
1920	3.45	4.54	3.55	5.68	5.58	7.77	3.04	2.29	2.30	1.52	5.09	4.63	49.44
Av. 12 yrs.	4.04	3.92	3.51	4.01	3.16	3.13	3.57	3.30	3.09	2.64	3.20	3.77	41.34

RAINFALL AT PROVIDENCE, R. I. Elevation, 182 feet.
(Sockanosset Reservoir, Providence Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	4.14	4.35	5.16	4.63	2.41	0.65	4.98	2.22	0.88	3.37	3.01	4.55	40.35
1915	9.71	4.12	0.04	2.41	1.92	2.90	5.51	5.57	1.20	2.56	2.44	4.18	42.56
1916	1.44	7.24	3.28	3.61	4.57	4.77	9.45	1.36	0.71	2.64	2.19	3.64	44.90
1917	3.26	2.58	4.82	2.66	4.06	5.07	1.61	6.48	2.91	6.19	0.37	3.39	43.40
1918	1.44	3.33	2.21	4.81	1.92	3.48	4.90	4.32	9.06	0.73	2.22	3.89	42.31
1919	5.21	3.85	5.46	4.05	4.53	3.81	3.56	5.68	4.85	1.87	4.75	2.43	50.05
1920	4.50	7.57	6.58	5.50	4.82	8.24	1.89	2.19	2.75	1.69	5.41	4.82	55.96
Av. 15 yrs.	4.26	4.09	4.50	4.32	2.97	3.57	3.64	4.08	2.76	3.50	3.96	4.05	45.70

RAINFALL AT PROVIDENCE, R. I. Elevation, 182 feet.

(U. S. Weather Bureau.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1905	2.45	1.18	1.98	3.09	1.62	5.63	2.64	3.00	5.70	1.88	1.57	3.92	34.66
1906	2.59	2.88	4.29	2.47	4.51	3.40	5.29	2.51	3.18	4.91	1.90	3.81	41.74
1907	2.63	2.36	1.78	4.24	3.72	2.22	1.06	0.88	8.66	3.44	4.60	4.96	40.55
1908	2.93	4.00	3.42	1.77	4.18	2.01	4.33	5.16	0.88	3.37	0.92	3.12	36.09
1909	3.06	5.80	2.86	5.07	2.09	1.61	0.58	2.50	3.28	1.25	2.95	2.70	33.75
1910	4.85	3.86	1.32	1.64	2.90	3.98	2.86	2.62	2.68	1.60	3.37	2.53	34.21
1911	2.71	2.38	3.16	3.14	2.04	1.86	3.23	4.86	2.01	2.79	5.61	3.01	36.80
1912	4.09	2.65	6.36	3.61	3.99	0.63	1.76	2.90	1.87	2.37	2.81	5.61	38.65
1913	2.90	2.97	4.30	5.32	1.84	1.19	2.29	2.36	2.90	5.45	1.96	3.46	36.94
1914	3.56	2.99	3.38	3.94	1.88	0.58	2.81	2.02	0.48	2.97	1.96	2.93	29.50
1915	6.86	3.30	0.07	1.58	1.82	1.29	6.35	4.48	0.88	1.86	1.67	3.80	33.96
1916	1.35	4.34	2.46	2.89	3.85	4.20	6.37	0.78	0.86	2.39	1.92	3.03	34.44
1917	3.01	1.97	4.14	2.62	3.39	4.33	1.09	5.90	2.28	5.02	0.31	2.10	36.16
1918	3.11	2.87	1.77	3.74	2.07	3.12	4.44	2.41	8.04	0.65	2.01	3.14	37.37
1919	4.34	3.09	4.31	3.32	3.79	3.23	3.68	5.14	5.80	1.49	3.79	2.11	44.09
1920	2.60	4.56	3.66	4.70	4.92	6.80	3.00	3.17	2.11	1.44	3.69	3.91	44.56
Av. 16 yrs.	3.31	3.20	3.08	3.32	3.04	2.88	3.24	3.17	3.23	2.68	2.56	3.38	37.09

RAINFALL AT SCITUATE (ROCKY HILL), R. I. Elevation, 440 feet.

(Providence Water Supply Board.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1916	1.88	6.06	2.15	3.44	4.82	5.79	5.90	1.05	1.31	2.65	2.42	2.99	40.46
1917	3.99	1.88	4.91	2.71	4.11	4.63	0.97	4.83	2.46	6.50	0.50	3.09	40.58
1918	3.38	3.91	2.15	4.25	3.42	4.33	4.05	3.64	8.59	1.09	2.64	3.74	45.19
1919	4.78	3.23	6.15	4.26	5.75	4.55	6.23	6.77	6.14	2.13	5.21	2.59	57.79
1920	3.07	6.00	4.63	6.46	4.38	6.60	4.60	3.85	2.55	1.26	5.67	5.17	54.24
Av. 5 yrs.	3.42	4.21	4.00	4.22	4.49	5.18	4.35	4.03	4.21	2.73	3.29	3.52	47.65

RAINFALL AT SCITUATE (SOUTH), R. I. Elevation, 280 feet.

(Providence Water Supply Board.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1916	1.80	5.88	2.37	3.76	4.61	5.57	7.24	1.25	1.09	2.45	2.33	3.33	41.68
1917	4.03	2.24	5.39	2.65	4.04	4.27	2.31	6.77	2.91	6.77	0.43	3.06	44.87
1918	3.48	4.15	1.91	4.90	2.60	4.58	7.73	4.99	7.97	1.01	2.60	3.65	49.57
1919	4.66	3.30	6.11	4.18	5.92	3.31	4.46	7.00	6.22	2.29	5.12	2.42	54.99
1920	3.12	5.64	4.66	5.63	3.99	9.03	4.71	3.67	3.45	1.31	6.15	4.48	55.84
Av. 5 yrs.	3.42	4.24	4.09	4.22	4.23	5.35	5.29	4.73	4.33	2.77	3.33	3.39	49.39

RAINFALL AT WOONSOCKET, R. I. Elevation, 160 feet.

(Woonsocket Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	5.02	3.38	6.03	5.86	2.42	1.12	3.85	1.98	0.44	2.47	2.69	4.22	39.48
1915	8.15	4.88	0.09	1.70	2.04	2.92	10.35	6.48	0.48	2.96	3.14	5.11	48.30
1916	1.77	6.28	2.39	3.79	4.84	6.10	8.36	2.20	1.25	1.53	2.15	3.11	43.77
1917	3.91	3.04	4.85	1.16	3.96	4.76	0.84	8.34	2.20	6.51	0.57	2.38	42.52
1918	2.00	2.54	2.68	3.25	3.03	3.29	3.38	2.94	8.71	1.07	2.29	3.90	39.08
1919	4.66	2.93	5.31	3.21	5.25	2.64	5.70	5.26	6.44	2.70	5.01	2.37	51.48
1920	3.37	6.39	5.63	6.87	4.41	6.85	3.54	3.22	3.24	1.27	6.45	5.27	56.51
Av. 35 yrs	4.38	4.14	4.50	3.87	3.89	3.06	4.29	4.03	3.84	3.74	3.85	4.03	47.62

CONNECTICUT.

RAINFALL AT BAKERSVILLE, CONN. Elevation, 690 feet.
(Nepaug Basin, Hartford Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1912	...	...	...	...	4.08	0.79	1.59	4.21	3.25	4.14	4.62	4.09	....
1913	3.51	2.06	5.80	5.23	3.99	0.97	1.81	5.10	4.69	10.80	4.07	2.60	50.63
1914	2.85	1.93	4.65	4.42	3.20	3.12	4.38	2.59	0.26	3.67	3.36	3.54	37.97
1915	7.36	4.82	0.06	2.07	2.63	2.77	6.94	8.72	3.74	3.33	2.67	6.28	51.39
1916	1.21	4.71	2.78	2.64	3.39	3.99	5.21	2.08	5.38	1.66	3.11	3.39	39.55
1917	3.66	2.44	3.78	2.52	3.56	6.18	2.84	5.51	0.55	7.98	0.97	3.05	43.04
1918	4.04	2.93	2.76	3.83	6.03	2.91	4.87	2.31	7.80	1.44	2.74	3.50	45.16
1919	2.82	3.20	7.16	3.13	7.13	2.15	3.69	3.94	5.65	2.80	5.36	2.55	49.58
1920	2.68	4.93	5.25	3.62	3.54	5.82	5.17	4.13	7.98	0.80	4.23	5.38	53.53
Av. 8 yrs.	3.52	3.38	4.03	3.43	4.18	3.49	4.37	4.30	4.51	4.06	3.31	3.79	46.37

RAINFALL AT BARNES, CONN. Elevation, 550 feet.
(Nepaug Basin, Hartford Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1912	...	...	...	4.36	4.32	0.82	2.19	3.52	2.95	4.92	4.95	4.53	....
1913	3.40	2.39	5.44	4.64	4.39	0.77	1.88	4.72	4.99	10.85	3.50	2.88	49.85
1914	3.45	2.45	5.17	4.16	3.48	3.38	4.34	2.68	0.35	3.57	3.59	4.45	41.07
1915	7.48	4.85	0.20	2.36	2.39	2.49	6.40	9.10	3.60	3.15	3.98	5.78	51.78
1916	1.19	5.30	2.69	2.71	4.10	4.93	3.72	3.23	5.11	1.67	3.19	3.17	41.01
1917	3.77	2.50	4.02	2.70	4.32	6.49	2.70	4.73	0.79	8.71	1.24	3.29	45.26
1918	2.78	2.69	2.92	3.43	0.90	...	...	...	...	...	...	...	.....
Av. 5 yrs.	3.86	3.50	3.50	3.31	3.74	3.61	3.81	4.89	2.97	5.59	3.10	3.91	45.79

RAINFALL AT BRIDGEPORT, CONN. Elevation, 20 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	5.38	2.91	4.41	4.24	3.33	2.78	7.10	2.52	0.25	4.90	3.17	4.95	45.94
1915	7.67	6.30	0.29	1.88	3.04	1.48	4.93	6.97	1.73	3.53	1.60	5.53	44.95
1916	1.66	5.04	4.05	2.71	3.06	4.41	4.73	1.93	3.06	1.56	2.20	3.11	37.52
1917	3.27	2.36	6.49	2.79	3.55	3.48	2.97	3.38	2.35	5.44	1.15	3.59	40.82
1918	3.63	3.20	1.93	3.56	3.87	5.27	3.65	1.80	4.66	1.47	3.01	3.98	40.03
1919	3.61	4.14	5.11	2.28	5.15	1.24	5.01	9.50	7.77	3.91	4.30	2.89	54.91
1920	2.94	4.51	4.72	5.25	4.14	5.13	3.06	4.01	4.77	1.35	4.93	5.75	50.56
Av. 27 yrs.	3.95	3.98	4.44	3.85	3.72	3.15	4.50	4.50	3.76	4.02	3.41	4.30	47.58

RAINFALL AT CANAAN, CONN. Elevation, 600 feet.
(Falls Village.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.51	2.35	4.23	3.69	3.30	2.97	3.10	2.48	0.55	2.23	2.37	2.58	32.36
1915	5.77	5.54	0.12	2.56	2.90	4.65	7.97	7.41	3.74	1.96	2.07	8.89	53.58
1916	1.48	3.77	2.92	2.97	3.38	3.87	7.38	3.10	6.23	0.96	3.58	3.02	42.66
1917	3.19	2.58	2.90	2.08	2.99	4.75	1.86	3.01	0.40	6.43	0.95	2.28	33.42
1918	3.01	2.73	2.53	4.05	3.93	2.90	5.65	3.59	5.55	1.68	2.41	3.79	41.82
1919	2.94	2.47	5.65	2.32	4.52	2.93	5.73	2.96	4.72	2.22	6.31	2.23	45.00
1920	2.07	10.37	4.03	4.94	2.65	5.24	4.16	6.02	7.88	1.18	3.78	4.29	56.61
Av. 19 yrs.	3.18	3.81	3.44	3.09	3.99	3.61	4.98	4.17	4.17	2.82	3.35	3.98	44.59

RAINFALL AT CANTON, CONN. Elevation, 900 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.46	2.63	4.73	4.18	2.91	3.24	3.87	3.21	0.29	3.67	3.89	4.60	40.68
1915	7.18	4.61	0.19	2.37	2.42	2.92	6.60	8.32	3.28	2.88	3.45	5.54	49.76
1916	1.15	4.74	2.90	2.51	4.67	6.53	4.61	3.82	4.20	1.28	3.31	3.19	42.91
1917	3.02	2.75	2.92	2.73	4.32	6.81	3.72	4.48	0.78	8.52	1.24	3.51	44.80
1918	**3.29**	2.67	2.74	3.06	3.98	3.22	3.02	2.36	5.96	0.77	2.77	3.47	37.31
1919	2.65	3.49	6.81	2.88	7.81	1.36	3.33	3.29	5.02	2.98	4.66	2.45	46.73
1920	2.71	3.19	4.23	4.99	3.87	9.13	5.10	2.74	9.16	0.52	5.68	6.02	57.34
Av. 62 yrs.	3.62	3.71	4.07	3.53	4.22	4.15	4.53	4.73	4.17	4.47	4.18	3.78	49.16

RAINFALL AT COLCHESTER, CONN. Elevation, 370 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	4.30	3.04	3.81	4.98	2.45	1.69	5.07	1.89	0.42	3.06	3.10	3.94	37.75
1915	8.40	6.25	0.26	1.92	3.57	1.35	5.94	7.90	0.96	3.69	3.21	5.70	49.15
1916	1.76	5.25	3.41	2.41	5.01	4.65	6.69	2.57	2.00	2.22	3.67	3.22	42.86
1917	4.13	1.62	5.82	3.18	3.59	4.77	2.72	7.11	2.52	6.07	0.74	3.12	45.39
1918	3.41	3.87	2.61	3.93	3.20	4.73	2.95	3.22	8.98	1.52	3.39	4.14	45.95
1919	4.43	4.17	7.78	4.11	6.49	2.15	5.10	7.33	4.77	2.91	5.11	3.06	57.41
1920	3.37	4.11	5.11	5.89	4.51	7.44	5.01	4.10	6.22	1.34	5.89	6.37	59.36
Av. 29 yrs.	4.04	4.12	4.50	4.32	3.92	2.99	3.91	4.43	3.71	3.86	3.98	4.27	48.05

RAINFALL AT CORNWALL, CONN. Elevation, 1 300 feet.
(Cream Hill.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.79	2.42	3.92	4.03	3.75	3.77	3.51	2.85	0.63	2.56	2.80	3.01	36.04
1915	6.66	5.62	0.29	2.80	2.96	4.32	7.93	7.24	3.63	2.24	2.70	7.52	53.91
1916	1.86	4.02	3.76	3.58	3.01	3.90	5.22	2.87	5.85	1.24	3.35	3.83	42.49
1917	2.84	2.78	3.47	1.76	3.43	6.22	3.98	3.99	0.72	6.10	0.85	2.88	39.02
1918	3.90	2.66	2.30	3.86	4.44	3.23	3.77	2.76	6.99	1.78	2.95	3.97	42.61
1919	3.09	2.22	6.11	3.74	5.16	2.27	5.40	3.06	4.36	2.51	6.43	2.72	47.07
1920	2.78	4.42	3.47	5.46	3.14	5.76	4.89	5.44	6.03	3.17	5.67	5.77	56.00
Av. 24 yrs.	3.64	3.47	3.74	3.48	4.11	3.92	4.94	4.38	4.49	3.64	3.34	4.01	47.16

RAINFALL AT DANIELSON, CONN. Elevation, 300 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.90	3.00	4.32	4.43	2.28	1.47	4.29	2.75	0.45	2.70	2.65	1.60	33.84
1915	6.00	3.05	0.10	2.00	3.09	0.75	9.90	7.71	0.95	2.75	2.65	3.90	42.85
1916	2.30	5.25	3.60	2.32	4.60	6.12	7.77	3.30	1.95	1.65	2.18	3.50	44.54
1917	3.68	2.55	4.10	1.25	3.53	5.16	2.50	6.40	1.98	5.48	0.85	1.10	38.58
1918	2.05	3.10	1.00	2.30	1.41	5.43	3.25	4.37	8.86	1.50	2.10	3.60	38.97
1919	5.40	2.10	7.10	5.52	4.57	4.30	4.88	5.22	6.55	...	...	...	....
Av. 14 yrs.	3.90	3.45	3.44	3.05	2.96	3.04	3.56	3.97	3.85	2.99	3.15	3.82	41.18

RAINFALL AT ENFIELD, CONN. Elevation, 90 feet.
(Thompsonville.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1915	...	...	...	1.26	2.00	4.09	7.04	5.72	3.50	2.82	1.79	4.88	....
1916	1.37	3.49	1.64	2.16	3.06	4.60	4.96	2.06	5.09	1.49	2.99	2.87	35.78
1917	3.46	2.12	3.78	1.50	3.73	3.35	1.93	4.35	1.03	4.91	2.28	0.55	32.99
1918	3.30	3.00	2.16	3.52	2.40	3.70	3.31	4.35	5.71	1.07	2.61	3.88	39.01
1919	2.25	4.24	5.35	2.94	5.75	1.44	3.22	2.66	6.25	2.17	5.70	1.79	43.76
1920	2.49	3.24	1.93	4.67	3.23	8.09	3.34	2.51	8.03	0.77	5.32	4.69	48.31
Av. 5 yrs.	2.58	3.22	2.97	2.96	3.64	4.24	3.35	3.19	5.22	2.08	3.76	2.76	39.97

RAINFALL AT HARTFORD, CONN. Elevation, 159 feet.
(Hartford Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.09	2.21	3.88	3.93	3.13	2.10	4.56	1.93	0.33	3.45	3.01	3.92	35.54
1915	6.89	4.22	0.17	1.36	2.57	4.06	4.15	8.92	1.68	3.20	2.14	5.60	44.96
1916	1.00	5.23	2.50	2.83	3.34	4.42	4.09	4.64	4.11	1.67	3.19	2.90	39.92
1917	3.60	1.85	4.15	2.87	4.02	4.24	4.34	5.67	1.36	7.72	2.49	1.30	43.61
1918	3.49	2.91	2.18	4.24	2.50	3.83	3.41	2.37	5.60	0.85	2.69	3.95	38.02
1919	2.21	3.49	5.07	2.94	7.62	1.14	3.47	3.60	4.85	3.19	4.72	2.15	44.45
1920	2.55	3.85	3.08	5.88	3.70	7.34	5.29	3.11	9.12	0.80	6.05	6.18	56.95
Av. 53 yrs.	3.44	3.48	3.87	3.32	3.60	3.29	4.06	4.48	3.67	3.82	3.63	3.41	44.07

RAINFALL AT HARTFORD, CONN. Elevation, 159 feet.

(U. S. Weather Bureau.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1898	...	...	...	3.91	6.05	2.40	5.15	7.58	2.67	5.89	7.82	2.51	....
1899	4.25	5.17	7.75	3.23	1.71	3.07	6.26	1.92	3.60	2.98	2.11	2.01	44.06
1900	4.34	9.70	6.91	1.83	5.41	3.64	4.83	2.65	1.72	2.84	5.12	3.13	52.12
1901	1.85	0.88	6.93	10.68	7.20	0.86	3.23	7.57	5.04	3.60	2.49	10.32	60.65
1902	2.13	6.17	6.09	3.87	1.59	5.18	6.85	6.11	6.51	6.71	1.26	7.10	59.57
1903	3.06	4.13	6.53	2.28	0.88	10.55	5.73	7.79	3.22	2.94	2.62	3.20	52.93
1904	4.31	2.14	3.00	6.08	3.19	2.94	3.64	5.45	5.45	2.25	1.52	3.09	43.06
1905	4.64	1.79	3.35	2.57	1.25	4.85	2.71	5.08	3.43	2.23	1.77	3.47	37.14
1906	2.69	2.30	5.02	3.58	4.60	2.19	5.09	2.65	3.57	5.54	2.90	3.83	43.96
1907	2.94	2.48	1.33	3.24	3.35	3.44	1.86	1.03	11.56	4.53	4.74	4.70	45.20
1908	3.47	4.98	3.06	2.36	6.52	2.42	5.74	6.74	1.12	1.67	0.92	3.36	42.36
1909	2.80	5.47	3.64	7.21	1.99	2.23	1.59	3.35	3.83	1.40	2.01	2.83	38.35
1910	6.68	4.43	0.95	3.15	2.49	4.16	2.47	2.98	3.41	0.77	4.36	1.93	37.78
1911	2.77	2.64	3.89	3.18	1.22	2.55	2.97	5.56	2.00	7.30	4.18	3.36	41.62
1912	2.11	3.43	7.29	3.93	4.59	0.66	2.90	3.02	2.14	1.26	3.53	4.46	39.32
1913	2.82	2.33	4.86	4.62	3.99	2.07	1.83	3.89	3.56	9.25	2.12	3.59	44.93
1914	3.38	2.79	4.14	3.84	2.71	1.70	4.30	1.96	0.20	3.05	2.38	3.85	34.30
1915	5.70	4.30	0.29	1.53	2.53	1.51	6.97	6.83	1.29	2.74	1.75	4.78	40.22
1916	1.16	5.72	2.77	2.93	3.14	3.86	3.52	3.44	3.46	1.08	2.83	2.99	36.90
1917	2.90	2.20	4.12	2.47	3.66	4.02	4.07	6.92	1.27	5.30	1.37	3.22	41.52
1918	3.28	2.43	2.58	3.36	3.46	4.36	2.76	3.51	4.89	0.82	2.74	3.56	37.75
1919	2.95	3.39	6.10	2.79	5.70	1.54	2.44	3.05	4.30	2.95	4.69	2.06	41.96
1920	3.39	5.08	3.75	5.43	3.53	8.00	6.70	3.45	7.95	0.90	6.43	6.35	60.96
Av. 22 yrs.	3.34	3.82	4.29	3.82	3.39	3.45	4.02	4.32	3.80	3.28	2.90	3.96	44.39

RAINFALL AT HARTLAND (EAST), CONN. Elevation, 1 200 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1917	3.07	4.74	4.14	2.57	4.28	4.80	2.51	6.50	0.54	9.07	.1.03	3.43	46.68
1918	4.41	2.39	2.65	3.94	3.40	3.41	2.44	4.86	5.48	1.27	2.94	3.87	41.06
1919	2.04	3.19	6.92	3.15	8.14	3.32	4.79	2.93	6.34	2.30	6.15	2.15	51.42
1920	2.72	5.31	4.58	5.60	2.69	9.12	4.04	4.75	8.08	1.10	6.31	6.40	60.70
Av. 4 yrs.	3.06	3.91	4.57	3.82	4.63	5.14	3.45	4.76	5.11	3.44	4.11	3.96	49.96

RAINFALL AT LAKE KONOMOC, CONN. Elevation, 180 feet.

(New London Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.45	3.23	3.70	5.74	2.23	1.06	3.83	2.45	0.10	3.50	2.75	4.02	36.06
1915	10.75	6.36	0.28	1.50	3.10	0.74	3.09	8.66	1.14	4.00	1.45	5.01	46.08
1916	1.64	6.24	4.79	0.81	4.55	5.63	8.45	1.70	1.35	2.52	2.37	3.87	43.92
1917	3.85	3.62	8.74	2.44	3.93	4.64	2.36	5.53	4.11	4.78	0.71	3.98	48.69
1918	3.72	4.85	2.34	4.89	4.28	4.49	2.68	2.04	9.18	1.50	4.11	4.46	48.54
1919	5.87	2.93	7.82	5.90	4.01	1.99	5.38	9.08	4.81	2.86	4.40	5.07	60.12
1920	2.86	4.25	4.67	5.84	2.72	5.54	4.21	4.13	2.59	1.75	5.79	5.61	49.96
Av. 7 yrs.	4.59	4.50	4.62	3.87	3.55	3.44	4.29	4.80	3.33	2.99	3.08	4.57	47.63

RAINFALL AT LYMAN'S STATION, CONN. Elevation, 450 feet.

(Nepaug Basin, Hartford Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	...	...	...	...	...	3.63	4.03	3.04	0.34	3.49	3.13	3.13	....
1915	5.49	3.97	0.13	1.73	2.32	2.71	6.12	8.06	3.15	2.75	3.65	3.85	43.93
1916	1.00	3.07	1.84	1.24	2.14	5.02	4.12	3.51	4.31	1.28	2.99	1.92	32.44
1917	2.07	1.47	2.49	2.68	4.53	7.48	3.13	4.76	0.26	7.86	1.03	1.68	39.44
1918	3.14	1.47	2.74	3.33	4.25	2.95	3.59	2.82	5.66	...	...	...	....
Av. 3 yrs.	2.85	2.84	1.49	1.88	3.00	5.07	4.46	5.44	2.57	3.96	2.56	2.48	38.60

RAINFALL AT MANSFIELD, CONN. Elevation, 640 feet.
(Storrs.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.90	3.67	4.69	4.27	2.40	1.23	2.47	1.48	0.45	3.22	3.02	3.32	33.12
1915	7.52	4.41	0.15	1.18	2.64	0.93	8.28	5.92	1.51	2.71	2.93	2.49	40.67
1916	1.46	5.98	1.92	1.93	4.43	4.48	10.85	0.93	2.49	2.33	3.30	2.60	42.70
1917	2.86	3.29	4.84	1.87	3.00	4.05	2.65	7.06	1.13	6.12	0.47	2.16	39.50
1918	3.71	2.32	2.37	3.08	2.74	4.29	3.01	3.87	7.77	0.93	0.91	3.58	38.58
1919	2.40	2.49	5.74	2.78	5.30	2.07	3.61	2.46	3.66	3.00	...	...	....
Av. 26 yrs.	3.36	3.74	4.10	3.36	3.26	2.85	4.28	3.78	3.60	3.55	3.25	3.75	42.88

RAINFALL AT MIDDLETOWN, CONN. Elevation, 125 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.34	5.12	4.52	3.21	1.66	1.48	4.30	1.95	0.22	3.46	3.11	3.54	34.91
1915	4.86	2.95	0.27	1.23	1.61	1.40	7.02	7.69	2.31	2.86	1.84	3.90	37.94
1916	1.04	5.82	3.48	3.06	4.11	3.97	6.57	4.55	2.66	1.47	2.56	3.42	42.71
1917	2.81	1.92	4.27	2.78	3.51	3.71	3.86	4.42	2.37	5.88	0.96	2.60	39.09
1918	3.80	2.29	1.64	4.80	4.71	4.34	4.40	2.11	5.50	1.13	2.65	3.31	40.68
1919	3.00	2.71	5.56	3.43	6.12	2.22	4.31	4.27	6.80	2.99	5.15	3.30	49.86
1920	4.44	3.20	4.28	6.26	4.50	6.66	6.97	3.25	5.08	2.73	6.38	6.39	60.14
Av. 62 yrs.	4.01	4.04	4.53	3.54	3.76	3.37	4.19	4.59	3.63	4.05	3.88	3.95	47.54

RAINFALL AT NEW HARTFORD, CONN. Elevation, 370 feet.
(East Branch Shed, Hartford Water Works.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1912	...	...	...	3.95	3.83	0.73	2.21	4.55	2.15	4.62	4.31	4.22	....
1913	3.36	2.25	5.95	4.50	4.67	1.28	1.28	4.93	4.14	9.18	3.96	2.50	48.00
1914	2.99	2.53	4.64	5.37	3.21	3.29	4.43	2.95	0.47	3.14	3.62	4.10	40.74
1915	6.81	4.71	0.21	2.93	2.15	2.59	6.63	8.89	3.59	2.98	3.67	6.12	51.28
1916	1.26	4.72	2.35	2.86	3.26	3.50	3.37	1.99	5.52	1.35	2.46	2.41	35.05
1917	3.47	2.43	3.90	2.61	4.32	4.85	2.46	5.39	0.58	8.16	2.22	1.70	42.09
1918	2.56	2.48	2.07	3.19	7.06	3.12	5.54	3.36	7.60	1.03	1.65	3.30	42.96
1919	1.58	3.01	6.10	2.13	7.18	1.81	3.39	3.51	4.87	2.22	5.40	1.59	42.79
1920	2.22	2.30	4.08	4.35	2.24	7.48	4.57	6.35	7.56	0.77	5.06	5.46	52.44
Av. 8 yrs.	3.03	3.05	3.66	3.49	4.26	3.49	3.96	4.67	4.29	3.61	3.51	3.40	44.42

RAINFALL AT NEW HAVEN, CONN. Elevation, 127 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	5.58	3.68	4.53	3.90	3.00	2.07	6.51	2.36	0.17	3.81	3.28	4.87	43.76
1915	8.59	6.31	0.25	1.86	2.72	2.94	3.90	6.60	1.35	3.30	1.90	5.78	45.50
1916	1.55	6.21	4.08	3.00	3.69	4.90	3.72	2.11	2.54	2.05	2.54	3.71	40.10
1917	3.34	2.16	6.21	3.00	3.45	3.36	3.35	2.53	2.23	4.68	1.08	3.90	39.29
1918	3.61	3.04	2.32	4.26	3.82	6.10	4.31	2.51	6.16	1.20	3.37	4.21	44.91
1919	3.17	4.22	4.55	3.71	6.16	2.19	3.75	7.02	7.09	3.62	4.30	2.78	52.56
1920	2.80	4.78	2.18	5.62	4.22	6.62	4.93	2.69	5.15	0.79	5.14	6.06	50.98
Av. 70 yrs.	3.81	4.02	4.04	3.52	3.88	3.17	4.32	4.48	3.63	3.75	3.56	3.72	45.90

RAINFALL AT NEW LONDON, CONN. Elevation, 47 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.26	2.79	3.01	4.03	2.65	1.83	4.26	3.30	0.33	3.60	2.31	4.40	35.77
1915	8.61	5.52	0.35	1.51	3.37	0.94	5.31	7.48	2.43	3.27	1.97	4.72	45.48
1916	1.64	6.01	3.07	2.39	2.95	4.28	7.13	1.58	1.62	2.98	3.17	3.77	40.59
1917	4.14	2.08	5.60	4.74	4.13	4.25	2.46	4.90	4.47	3.49	1.65	1.40	43.31
1918	4.81	4.46	2.32	4.24	3.77	4.88	4.15	1.41	6.66	1.44	3.01	3.64	44.79
1919	3.85	3.53	6.74	4.91	5.68	7.71	4.28	7.80	5.76	3.49	3.43	3.44	60.62
1920	2.70	4.12	4.25	5.15	3.16	6.24	3.33	5.26	2.35	1.34	5.23	5.29	48.42
Av. 50 yrs.	3.94	3.77	4.19	3.57	3.37	3.03	3.68	4.27	3.45	3.75	3.67	3.67	44.36

RAINFALL AT NEWTOWN, CONN. Elevation, 600 feet.

(Hawleyville.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.82	2.65	6.30	3.75	3.09	2.35	5.19	2.69	0.32	3.70	3.30	2.78	39.94
1915	5.81	5.77	0.24	2.51	3.71	2.65	6.87	**8.70**	3.10	2.12	2.59	**5.98**	50.05
Av. 17 yrs.	3.93	3.90	4.51	4.21	3.90	3.46	3.98	4.55	4.13	4.06	3.02	4.25	47.90

RAINFALL AT NORWALK, CONN. Elevation, 116 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	5.34	2.11	6.64	3.05	3.21	2.25	5.19	2.00	0.23	4.65	2.53	4.47	41.67
1915	6.38	4.88	0.23	2.18	2.71	3.07	4.00	7.61	1.90	3.48	1.48	4.94	42.86
1916	1.22	5.10	3.72	2.51	3.26	5.79	5.05	1.00	3.65	1.37	2.34	3.62	38.63
1917	2.80	1.75	4.36	2.04	3.14	3.78	3.15	2.37	1.53	6.74	1.42	3.18	36.26
1918	3.48	1.80	1.63	3.74	3.04	3.40	4.19	3.29	4.73	1.44	3.19	4.11	38.04
1919	3.59	3.90	5.28	3.40	4.61	1.84	6.58	7.20	5.15	5.15	3.92	3.19	53.81
1920	2.74	6.36	4.77	4.87	4.20	4.99	4.87	6.66	7.56	1.33	3.56	5.58	57.49
Av. 29 yrs.	3.49	3.62	4.22	3.50	3.94	2.96	4.08	4.91	3.60	3.89	3.34	3.91	45.46

RAINFALL AT NORWICH, CONN. Elevation, 150 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	4.27	2.46	3.57	4.18	1.86	0.92	3.64	2.75	0.37	2.88	2.48	3.59	32.97
1915	8.48	5.33	0.24	1.65	2.22	1.07	4.51	7.18	0.76	2.81	2.17	4.22	40.64
1916	1.30	4.37	1.69	3.88	4.19	4.09	7.32	1.27	1.70	2.03	2.37	2.79	37.00
1917	2.75	2.20	5.48	1.47	2.81	3.86	1.72	4.53	2.96	4.18	0.42	2.55	34.93
1918	2.78	3.46	1.50	3.86	2.92	4.49	2.84	3.29	8.04	1.03	2.96	3.47	40.64
1919	4.63	3.40	6.42	5.28	4.21	2.41	5.42	7.56	4.92	3.02	1.85	2.75	51.87
1920	1.81	3.94	3.06	5.65	3.71	6.71	3.65	2.21	3.01	1.29	5.31	4.65	45.00
Av. 50 yrs.	3.92	3.80	4.29	3.72	3.26	2.99	3.72	4.46	3.37	3.76	3.79	3.82	44.90

RAINFALL AT SOUTHINGTON, CONN. Elevation, 140 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.40	2.80	5.30	3.35	2.20	1.90	3.95	2.75	0.15	3.05	2.65	4.95	36.45
1915	7.15	5.40	0.20	1.50	2.20	1.55	6.85	7.55	1.40	2.70	2.50	5.90	44.90
1916	1.08	5.45	3.10	2.30	3.10	4.90	3.10	4.95	5.00	1.60	2.75	2.35	39.68
1917	2.03	1.60	3.10	1.95	3.20	2.70	1.40	5.05	1.20	6.30	1.00	4.10	33.63
1918	3.90	2.95	1.65	2.75	2.20	3.70	2.65	1.75	5.00	1.00	2.30	2.70	32.55
1919	3.25	3.00	5.80	2.45	7.05	1.45	2.95	2.45	5.30	2.35	4.35	1.90	42.30
1920	2.80	3.90	3.95	5.25	3.60	5.70	5.65	3.30	6.10	1.70	3.23	6.90	52.08
Av. 50 yrs.	3.77	3.85	4.19	3.15	3.39	3.07	4.17	4.46	3.49	3.52	3.45	3.86	44.37

RAINFALL AT THOMPSON, CONN. Elevation, 400 feet.

(North Grosvenordale.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.56	3.51	5.17	3.01	3.00	3.22	3.06	2.58	0.33	2.43	2.53	2.88	35.28
1915	7.21	4.82	0.12	1.97	2.65	1.01	7.58	7.54	1.18	2.74	1.91	4.27	43.00
1916	1.60	6.27	3.20	3.89	3.47	6.60	5.60	1.54	3.41	1.50	3.33	2.93	43.34
1917	3.38	3.76	4.60	1.99	5.01	5.16	1.44	5.40	1.17	5.89	0.73	2.51	41.04
1918	3.95	3.74	3.19	3.68	2.96	3.22	1.79	3.00	10.01	1.19	3.47	3.43	43.63
1919	5.22	3.69	7.20	3.93	5.24	2.70	4.28	4.25	7.06	3.67	5.84	2.67	55.75
1920	3.60	6.07	4.32	5.93	4.79	7.73	2.99	5.34	5.04	3.95	5.18	5.98	60.92
Av. 30 yrs.	3.86	4.05	4.22	3.49	3.41	3.23	3.67	3.86	3.57	3.30	3.57	3.82	44.05

RAINFALL AT VOLUNTOWN, CONN. Elevation, 260 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.14	3.95	4.55	3.97	2.20	0.88	3.98	2.75	1.18	2.99	3.00	4.01	36.60
1915	8.60	5.07	0.18	1.19	3.05	1.15	3.32	6.69	1.59	3.02	2.63	4.42	40.91
1916	1.07	5.01	2.23	3.03	5.05	5.13	9.71	1.84	1.82	2.88	1.44	4.39	43.60
1917	3.06	2.07	4.99	2.30	3.09	4.54	2.04	4.51	3.14	5.88	0.43	2.52	38.57
1918	3.35	3.31	2.32	5.09	**2.64**	5.06	3.99	3.13	7.24	1.18	2.53	3.38	43.22
1919	5.10	2.16	5.99	1.27	4.37	2.73	4.37	5.15	5.28	2.45	4.10	2.87	45.84
1920	3.12	5.02	4.46	4.04	3.12	...	...	3.31	3.83	...	...	...	...
Av. 35 yrs.	4.40	4.28	4.33	3.84	3.47	2.83	3.75	3.86	3.67	3.82	3.81	4.28	46.34

RAINFALL AT WALLINGFORD, CONN. Elevation, 130 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	5.68	4.00	4.50	4.29	2.59	1.88	4.43	1.84	0.36	3.34	3.46	**4.91**	41.28
1915	8.83	**7.87**	0.12	2.22	2.56	3.46	3.35	6.27	2.15	2.01	2.08	7.05	47.97
Av. 58 yrs.	4.46	4.43	4.58	3.69	3.83	3.38	4.09	4.41	3.54	3.99	3.99	4.17	48.56

RAINFALL AT WATERBURY, CONN. Elevation, 400 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.87	3.10	6.09	3.87	2.81	3.29	6.04	3.55	0.29	3.18	2.98	5.38	44.45
1915	7.08	5.49	0.17	2.30	2.78	1.72	6.30	7.82	1.15	2.55	2.58	6.37	46.31
1916	1.05	5.88	3.84	2.34	3.40	5.01	5.19	5.08	2.97	1.10	2.98	2.87	41.71
1917	3.04	2.35	4.24	2.72	4.07	3.51	1.93	5.62	1.57	8.72	0.97	2.09	40.83
1918	2.78	1.62	**2.34**	3.24	4.64	4.68	**3.34**	**2.08**	4.83	1.94	2.42	**3.72**	37.63
1919	3.83	0.43	6.24	2.83	6.22	3.07	5.26	4.72	**6.40**	5.00	4.95	2.45	51.40
1920	3.69	10.00	4.10	5.79	3.18	7.13	7.43	4.27	5.25	0.74	4.50	5.67	61.75
Av. 34 yrs.	4.13	4.17	4.31	3.64	3.86	3.47	4.69	4.56	3.76	3.97	3.54	4.25	48.35

NEW YORK.

RAINFALL AT ALBANY, N. Y. Elevation, 97 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	1.91	1.85	3.44	5.78	2.30	1.59	2.25	5.30	0.47	0.84	2.19	1.84	29.76
1915	2.76	3.79	0.09	2.15	1.92	2.85	5.05	6.23	2.17	2.15	2.11	6.35	37.62
1916	1.80	3.23	3.99	3.52	2.71	2.24	2.98	2.32	3.96	1.54	2.88	2.70	33.87
1917	1.67	2.41	3.14	1.38	2.83	3.00	1.70	2.70	1.36	5.63	0.93	1.91	28.66
1918	2.57	1.35	1.89	2.48	2.78	2.30	1.59	3.42	5.37	1.67	2.54	2.16	30.12
1919	1.42	1.68	4.86	1.98	5.42	1.10	4.34	4.60	2.99	2.60	3.30	1.23	35.52
1920	1.73	3.36	2.72	3.90	0.73	5.21	4.85	2.71	5.24	1.53	4.44	4.12	40.54
Av. 95 yrs.	2.55	2.44	2.76	2.67	3.44	3.86	3.98	3.77	3.32	3.32	2.91	2.65	37.67

RAINFALL AT COOPERSTOWN, N. Y. Elevation, 1 250 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.28	2.56	3.77	4.44	3.65	5.56	5.33	5.56	1.63	1.88	2.38	2.34	41.38
1915	5.23	3.03	0.56	1.96	2.57	7.15	8.48	5.48	3.41	5.32	2.78	5.42	51.39
1916	2.79	3.71	4.60	3.61	4.47	4.95	4.84	2.62	7.57	2.12	3.89	3.26	48.43
1917	3.75	2.19	3.14	1.81	3.86	9.96	7.97	4.98	2.01	8.34	1.52	1.50	51.03
1918	3.51	**2.26**	**1.83**	3.98	5.32	5.29	3.99	6.27	5.11	3.97	1.68	2.63	45.84
1919	2.01	1.70	3.00	2.36	4.51	4.15	6.76	3.37	1.93	4.96	3.17	1.70	39.62
1920	1.87	3.64	3.38	3.79	0.97	4.34	5.00	5.97	7.30	1.24	4.49	3.68	45.67
Av. 67 yrs.	2.76	2.61	2.85	2.79	3.67	4.33	4.61	4.37	3.60	3.44	3.02	2.86	40.91

RAINFALL AT CORTLAND, N. Y. Elevation, 1 129 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	1.59	1.69	3.84	4.55	2.99	5.60	3.49	5.66	1.29	1.20	1.43	2.39	35.72
1915	5.62	3.44	0.59	0.80	2.60	4.47	8.04	5.98	5.15	5.35	2.20	3.70	47.94
1916	1.44	3.55	3.02	2.41	4.43	4.38	1.18	2.39	6.67	1.99	1.93	2.64	36.03
1917	2.41	1.51	1.98	2.17	4.23	8.66	4.82	5.17	4.12	5.54	1.15	2.26	44.02
1918	2.61	0.80	3.37	3.02	5.65	4.11	2.94	2.81	5.66	3.54	1.67	1.95	38.13
1919	2.65	1.54	1.91	2.31	5.18	2.12	4.43	2.46	1.14	3.59	3.49	1.42	32.24
1920	2.14	1.14	1.76	3.66	1.66	3.08	4.19	5.27	4.00	1.38	3.68	2.92	34.88
Av. 40 yrs.	2.62	2.29	2.63	2.88	3.73	4.12	4.36	3.75	3.57	3.62	2.83	2.92	39.32

RAINFALL AT BOYD'S CORNER RESERVOIR (CROTON WATERSHED), N. Y.

(New York Water Supply.) Elevation, 600 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.59	2.13	4.43	5.15	3.26	3.40	4.99	2.50	0.33	3.96	3.64	4.26	41.64
1915	7.21	6.47	0.19	3.46	3.51	1.84	6.27	10.11	3.87	3.67	2.20	7.13	55.93
1916	1.50	4.56	3.45	3.16	4.40	3.90	4.52	2.23	5.82	1.40	4.17	3.46	42.57
1917	2.98	1.99	4.20	1.66	4.00	3.21	2.92	2.93	0.89	6.60	0.66	3.23	35.27
1918	3.48	3.11	1.52	4.58	3.78	3.26	5.35	4.88	3.85	1.64	3.35	4.37	43.17
1919	2.91	3.12	7.08	3.01	5.37	1.88	7.12	4.51	4.94	3.34	5.93	2.85	52.06
1920	2.61	4.89	3.45	5.45	2.81	5.86	6.74	4.97	9.19	1.21	4.02	5.72	56.92
Av. 53 yrs.	4.08	4.11	4.32	3.70	4.00	3.51	4.62	4.71	4.20	4.13	3.75	4.16	49.29

RAINFALL AT MIDDLE BRANCH RESERVOIR (CROTON WATERSHED), N. Y.

(New York Water Supply.) Elevation, 400 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	3.99	2.22	4.62	4.31	2.63	3.04	5.29	2.56	0.40	3.56	2.82	3.94	39.38
1915	6.69	5.75	0.19	3.31	2.76	2.51	5.03	8.89	3.59	2.70	2.43	5.88	49.73
1916	1.52	4.42	3.25	3.06	3.63	4.42	5.00	2.18	5.20	1.30	2.73	3.03	39.74
1917	2.83	2.10	3.66	2.25	3.72	3.12	3.57	2.24	0.96	6.60	2.21	2.48	35.74
1918	3.97	2.85	1.64	5.76	2.24	3.01	5.03	3.62	3.99	1.63	2.40	4.06	40.20
1919	2.56	4.25	5.70	2.77	4.49	2.12	5.80	3.44	5.08	3.81	4.91	2.66	47.59
1920	2.72	4.70	3.62	5.16	2.76	5.39	6.31	2.72	7.11	1.23	3.89	4.25	49.86
Av. 43 yrs.	4.14	4.15	4.04	3.45	3.87	3.47	4.82	4.94	4.11	3.83	3.61	4.04	48.47

RAINFALL AT OLD CROTON DAM, N. Y. Elevation, 200 feet.

(New York Water Supply.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	4.10	1.98	4.22	4.33	3.15	3.13	4.78	1.73	0.21	2.97	4.12	4.83	39.55
1915	6.62	6.86	0.46	3.26	2.87	2.46	5.40	9.79	3.99	3.36	2.52	7.63	55.22
1916	1.71	4.71	5.15	2.84	2.91	4.66	6.74	3.12	5.47	1.12	3.41	4.17	46.01
1917	3.24	2.63	4.83	2.54	5.15	4.84	2.75	2.49	1.53	7.20	2.40	2.42	42.02
1918	4.72	3.09	2.28	7.38	2.98	4.63	5.96	4.49	3.72	0.92	3.36	4.41	47.94
1919	3.26	4.98	5.65	2.92	6.17	3.25	6.88	5.14	5.98	5.31	5.02	3.66	58.22
1920	3.29	4.67	4.26	5.86	3.51	6.46	6.56	2.84	6.67	2.27	4.46	4.87	55.72
Av. 53 yrs.	4.27	4.26	4.57	3.63	3.83	3.59	4.72	5.36	4.39	3.97	3.93	4.06	50.58

RAINFALL IN THE VICINITY OF NEW YORK CITY. Elevation, 97 feet.

(Central Park Observatory.)

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	5.27	3.33	4.74	3.34	2.35	2.06	5.47	2.54	0.29	2.23	3.31	5.24	40.17
1915	7.94	6.01	1.25	2.58	3.27	3.85	3.01	7.26	2.38	2.26	1.64	4.28	45.73
1916	1.28	4.76	3.70	3.28	4.35	4.56	4.55	0.54	3.45	1.04	2.14	4.25	37.90
1917	2.96	2.08	4.46	2.71	3.83	3.83	5.01	1.56	2.68	6.81	0.86	4.25	41.04
1918	3.53	2.47	1.67	4.65	4.83	4.61	4.36	2.43	2.92	0.78	2.41	3.61	38.27
Av. 83 yrs.	3.45	3.49	3.73	3.55	3.88	3.73	4.14	4.51	3.60	3.77	3.45	3.71	45.01

RAINFALL AT SETAUKET, N. Y. Elevation, 40 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	5.28	3.07	4.30	4.23	2.55	1.57	5.20	1.56	0.23	2.87	2.25	5.42	38.53
1915	9.23	5.75	0.41	2.05	3.50	1.56	3.38	8.42	2.09	2.94	1.56	4.96	45.85
1916	1.35	4.62	3.40	2.58	3.12	4.08	7.22	1.08	3.34	1.51	2.41	3.55	38.26
1917	3.18	1.81	5.79	2.65	4.22	2.75	2.92	2.03	1.93	5.42	0.43	3.15	36.28
1918	3.46	2.45	1.40	4.42	3.67	4.06	5.38	2.62	7.84	1.32	2.91	3.51	43.04
1919	3.14	4.04	5.39	4.51	4.52	2.17	5.47	6.15	4.49	3.74	4.26	3.21	51.09
1920	3.26	6.65	4.23	4.91	3.75	6.34	4.55	4.40	4.57	1.83	4.95	6.33	55.77
Av. 35 yrs.	4.00	3.98	4.29	3.74	3.44	2.73	4.24	4.25	3.57	4.06	3.54	4.03	45.87

RAINFALL AT WAPPINGERS FALLS, N. Y. Elevation, 110 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	2.93	2.05	2.52	3.89	3.58	2.39	6.14	1.96	0.44	3.90	3.24	3.96	37.00
1915	5.89	5.41	0.38	3.23	3.52	2.91	6.25	9.35	2.99	3.00	2.27	8.86	54.06
1916	2.49	6.30	4.70	2.75	3.59	3.60	5.58	3.08	4.72	2.46	2.44	3.80	45.51
1917	3.49	3.48	2.84	1.62	4.10	5.13	2.72	4.48	0.70	5.53	0.52	2.60	37.21
1918	2.83	4.83	2.29	4.09	3.38	3.82	3.38	1.69	4.85	1.99	2.56	4.62	40.33
1919	2.79	3.31	5.39	2.42	4.66	1.37	6.10	4.30	3.89	2.53	5.39	2.50	44.65
1920	2.84	4.77	3.80	3.73	2.77	5.32	4.00	2.67	6.32	3.39	4.00	4.30	47.91
Av. 30 yrs.	3.72	3.98	3.79	3.66	4.37	4.15	4.71	4.63	3.76	3.93	3.20	3.81	47.71

RAINFALL AT YONKERS, N. Y. Elevation, 100 feet.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1914	8.28	0.13	0.50	3.35	2.85	1.25	6.31	1.70	0.25	3.90	5.00	6.88	40.40
1915	9.10	5.40	0.12	0.88	2.15	2.05	4.60	8.95	1.75	3.02	1.30	0.87	40.19
1916	1.30	7.50	2.33	2.28	5.18	6.15	6.14	1.20	2.40	1.25	1.44	3.95	41.12
1917	3.20	2.10	5.62	2.60	3.85	2.63	2.15	1.51	1.16	6.70	0.65	2.60	34.77
1918	3.10	2.50	0.78	1.90	1.75	2.28	1.68	1.30	2.90	0.60	3.25	3.15	25.19
Av. 41 yrs.	4.66	4.19	4.33	3.75	3.75	3.62	5.20	5.05	3.78	4.45	3.28	4.11	50.17

CANADA.

	Brome, Que.	Chatham, N. B.	Father Point, Que.	Fredericton, N. B.	Halifax, N. S.	Montreal, Que.	Point Lepreaux, N. B.	Quebec, Que.	Sherbrooke, Que.	St. John, N. B.	Whitehead, N. S.	Yarmouth, N. S.
1914	26.66	36.05	23.91	36.08	47.56	32.71	....	37.71	34.92	36.23	....	36.37
1915	30.21	48.81	33.89	41.51	62.86	29.23	....	32.78	34.85	46.39	24.06	37.27
1916	37.41	40.60	32.99	39.38	43.56	38.81	33.05	42.73	37.93	38.16	31.89	42.99
1917	42.04	48.73	36.90	47.95	52.13	44.62	40.81	48.12	31.90	46.43	39.86	50.06
1918	44.06	47.05	30.05	46.86	53.32	47.25	42.84	53.79	38.08	49.57	42.83	49.66
Av.	34.24	41.96	34.77	43.81	56.11	40.64	43.25	41.39	38.32	50.04	39.84	47.86
Years	41	45	45	40	50	47	30	48	14	58	31	39

ARGUMENTS AGAINST BOATING AND FISHING IN WATER-SUPPLY RESERVOIRS.*

To his Excellency the Governor:

The undersigned officers and past presidents of the New England Water Works Association, which comprises some 900 engineers and superintendents, most of whom are responsible for the care and protection of the waters supplied to the people of New England, respectfully submit this protest against the so-called Naphen bill, — House No. 589.

1. This bill grants to the inhabitants of Natick the right of boating and fishing on Lake Cochituate within the town of Natick.

2. We believe that such a grant is a step backward and a bad precedent.

3. Massachusetts has by long-continued, progressive effort reached such sanitary control of its public water supplies that the typhoid death rate, as recently recorded, is the lowest of any state in the country. This result has only been made possible by the untiring efforts of those who have been responsible for the purity of its water supplies, and, in our judgment, any legislation tending to loosen this sanitary control and to nullify the good work of the past is pernicious and rightly to be condemned.

4. Lake Cochituate — as it now exists — is the result of developments made by the City of Boston — the original natural lake, Long Pond, having been raised 8 ft. under authority of an Act of 1846 and 2 ft. additional under an Act of 1859. The lake comprises three ponds, extending northerly and southerly and lying in the towns of Natick, Wayland, and Framingham. From the southeast corner of the northern pond an aqueduct 13.3 miles long, with a capacity of 18 million gallons per twenty-four hours, leads to Chestnut Hill Reservoir.

5. At present, fishing from the shore is allowed by the Metropolitan Commission, in all parts of the lake except the northern division, — the one from which the aqueduct leads. The nearest point at which fishing can be carried on is about one third of a mile from the aqueduct intake. It is possible to supervise and regulate the use of the shores, although even this is attended with difficulties; but under present conditions it is wholly within the control of the Commission, and the permission can be promptly withdrawn should it prove necessary. The Act, now proposed, grants rights to boat and fish on the lake, including a part of the section of the lake adjacent to the intake of the aqueduct, and any infection of this water may reach the Chestnut Hill Reservoir in eighteen hours and the consumers within twenty-four hours; or, in other words, the conditions — if this bill becomes law — will be right for an explosive epidemic.

6. It is true that in recent years Lake Cochituate has been used only as auxiliary to the Wachusett supply, but from 1911 to 1919 water has been drawn from the lake in six of the nine years, for periods ranging from

* This letter was sent to Governor Coolidge of Massachusetts, requesting him to veto a bill which would have allowed boating and fishing in Lake Cochituate, a reservoir of the Metropolitan Water Works.

twelve to two hundred and ten days, and it may be necessary to put this supply in regular service at any time. Also if the present rate of increase of consumption in the Metropolitan district continues, Lake Cochituate will be necessarily used continuously after about 1925, unless some new supply is added to the system at great expense.

7. The proposed use of Lake Cochituate by the inhabitants of Natick for boating and fishing will, therefore, in our opinion, seriously jeopardize the health of the Metropolitan district. For such benefits as will accrue to Natick in recreation, the sanitary protection of one million people will be reduced, and this because it is impossible to so supervise such use of the lake as to prevent accidental or intentional contamination. Boating will mean easy approach to the location of the intake and possible short-circuiting of infection to the consumers; boats are frequently upset by accident or otherwise, if the users desire a swim; fishermen are more than likely to urinate in the water, and urine carries as many typhoid germs as fecal matter. It is impossible to provide such supervision as will guarantee the prevention of such happenings.

8. The fact that the water could be filtered and probably rendered safe is no argument. Chlorination as a disinfecting process might be practical without filtration, but would not be a complete safeguard, and would involve substantial expense. It is not logical to allow a few people to contaminate the water so as to make necessary a large expense to the many who will use it. As has been well said, "It is innocence and not repentance we want in our drinking waters."

9. On a certain Saturday of October, 1913, 500 cases of diarrhea suddenly developed in Peabody, Mass.; on the previous Thursday some men had been fishing on Spring Pond — a part of the water supply — and on Friday a shower had occurred. Investigation by the State Department of Health led to the conclusion that the epidemic was chargeable to infection of Spring Pond by the fishermen. In all, 1 500 cases developed. This is cited as an instance of the explosive possibilities of such chance contamination of a water supply, and, in our opinion, well illustrates the danger of opening Lake Cochituate to boating and fishing.

We respectfully urge that you veto Bill No. 589.

HENRY V. MACKSEY, *President.*
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MAY 11, 1920.

WILLIAM M. STONE.

Mr. William M. Stone, 34 Pine Street, Attleboro, Mass., born August 4, 1826, died May 27, 1921, in his ninety-fifth year.

For thirty-six years he was Water Commissioner of Attleboro, Mass., retiring from office in 1910, and until his death was very much interested in the department.

He joined the New England Water Works Association, September 13, 1905, and although for the past two or three years he has not been able to attend the meetings, he was deeply interested in the Association, and enjoyed the Journals.

His mind was perfectly clear to the last, the end coming suddenly, as he was sitting, fully dressed, in his chair.

FRANK J. GIFFORD, *Sec'y*,
715 Tremont Temple, Boston, Mass.

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Dear Sir: Enclosed please find 1.50 in payment of charge for Certificate
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Yours truly,

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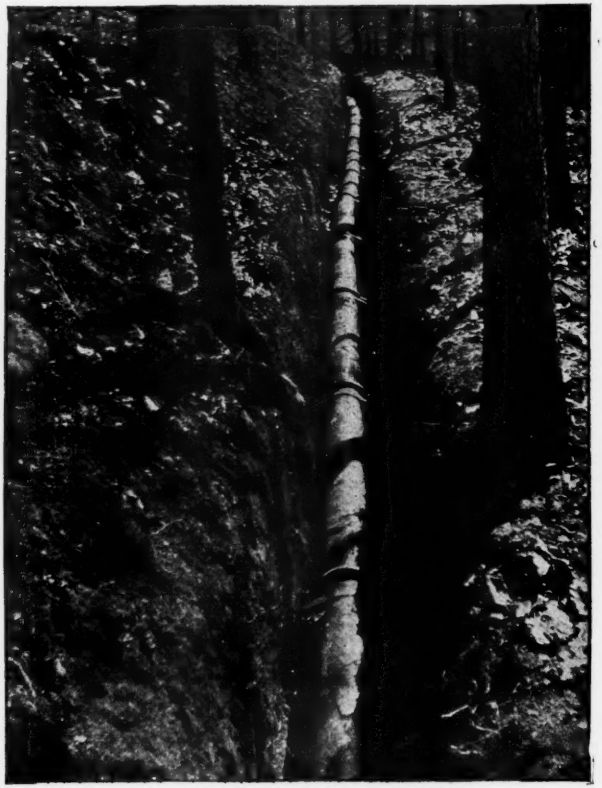

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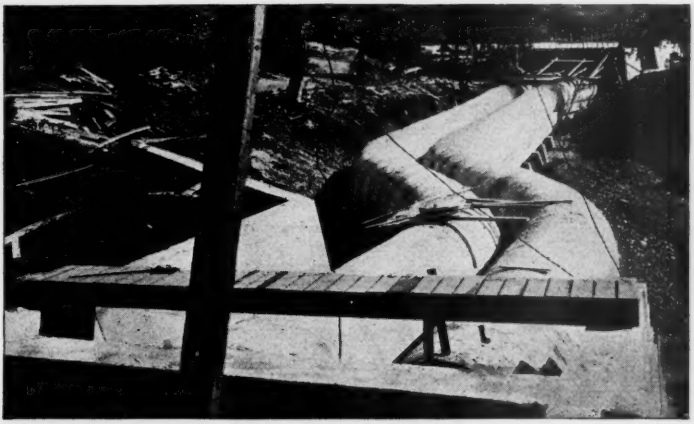

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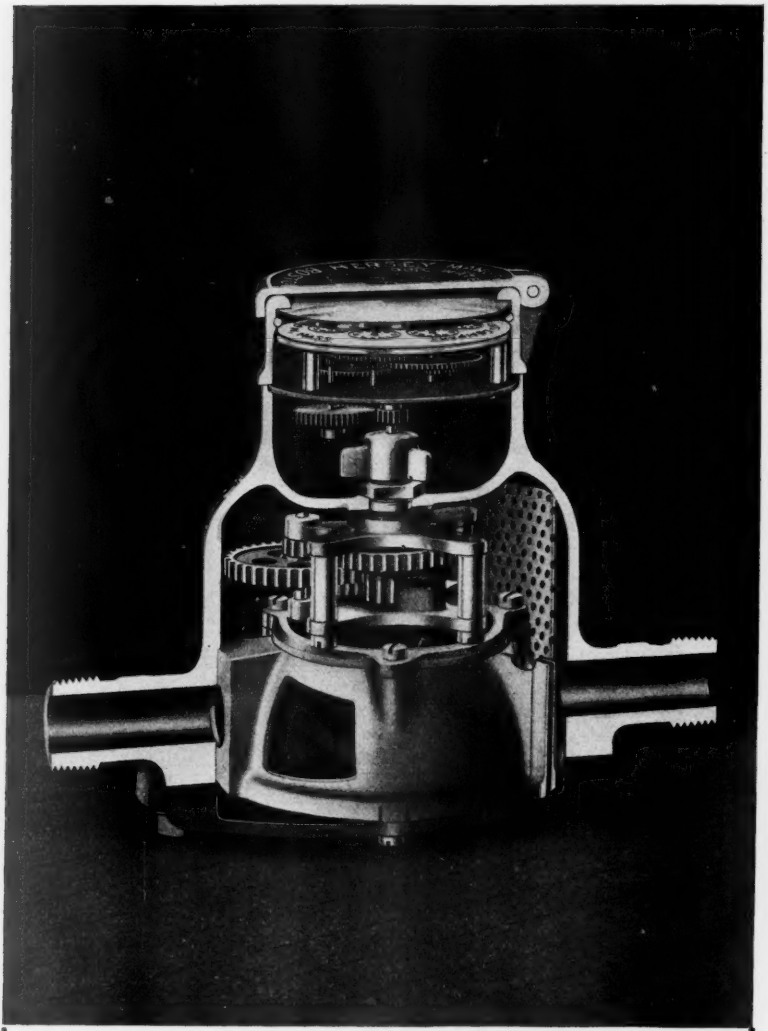

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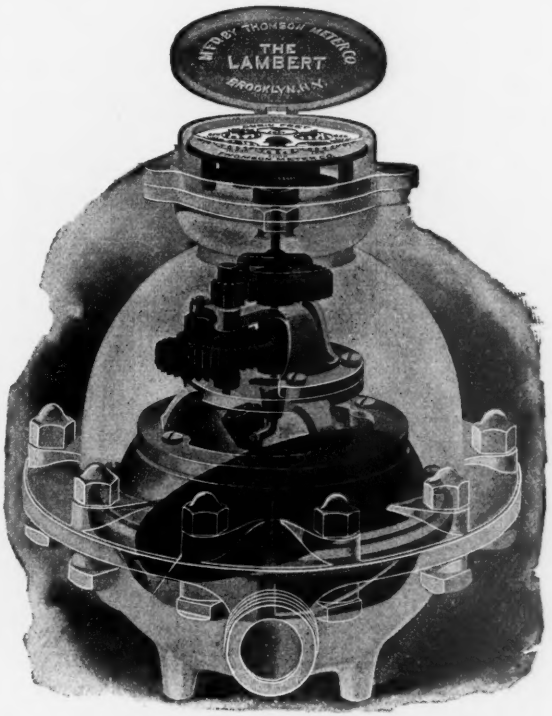
ACCURACY, LONG LIFE,

Avoidance of Repairs

Are the Requisites of the Perfect Water Meter and are the Principal Features of the

"LAMBERT."

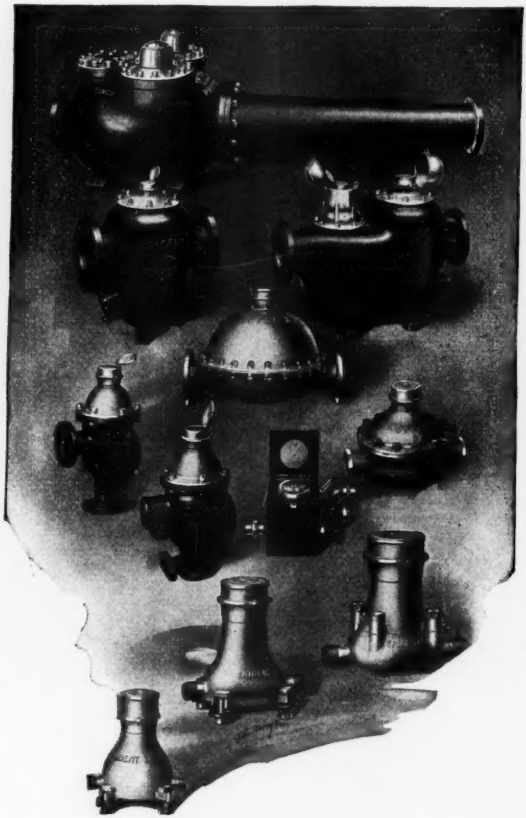


Our unbreakable disk-piston, reinforced with an internal steel plate, can be found only in the **LAMBERT METER.**

The growing popularity of the water-meter system is attributed by many to the inherent excellence of the **"LAMBERT"** meter. Where **"LAMBERT"** meters are selected, success is assured.

THOMSON METER CO.

100-110 BRIDGE ST.
BROOKLYN, N. Y.



A Trident for Every Service!

WHY are there more than two million TRIDENTS in service?

There is only one reason,—TRIDENTS are more continuously accurate, more durable, more economically maintained. They are the ***best*** meters. Don't stint quality — you need the best for ***your*** services!

Have you seen our latest development,—the Trident (enclosed) Gear Train?

NEPTUNE METER COMPANY

50 EAST 42d ST., NEW YORK CITY

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Cincinnati **Denver** **Portland**
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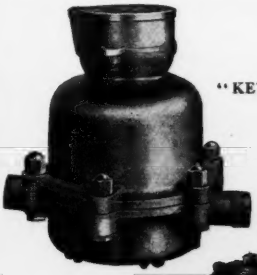
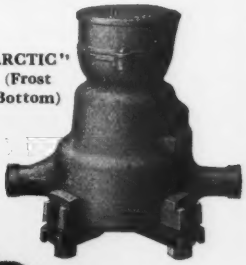


"KEYSTONE"



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"EUREKA"

NEW YORK CHICAGO

Keystone and Eureka

Water Meters

COLUMBIA, S. C. KANSAS CITY

Pittsburgh Meter Co.

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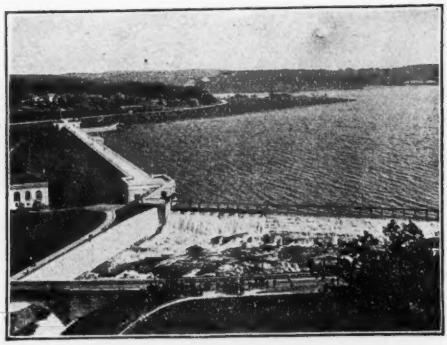
LOS ANGELES SEATTLE

"KEYSTONE-COMPOUND"

"UTILITY"



55 GALLONS PER CAPITA SAVED IN TWO YEARS

"The Venturi Meter was adopted as the best and most suitable device to measure the large quantities required without too great loss of head."—Thus wrote the superintendent of Pipe Lines and Reservoirs, Metropolitan Water Works, Boston, with reference to a decision of the Massachusetts legislature in 1902 authorizing the construction of new water works and making recommendations in regard to **preventing waste of water.**

VENTURI
METERS

Later showed in one district that, by the use of service meters, 55 gallons per capita was saved in two years. Thus a standard was set by the Venturi readings which might be bettered, but must not be lowered without good reason.

Venturi Meters have not only justified their use wherever installed, but have proved so consistently reliable that they are now regarded as standard equipment for all efficiently operated water works.

Write for our new Bulletin 210

Literature on request.

Builders Iron Foundry

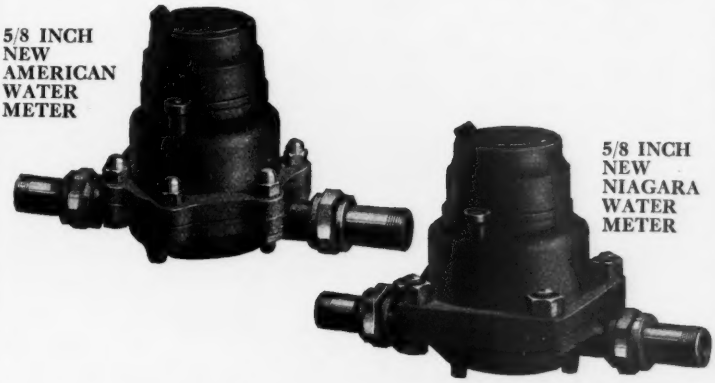
"Builders of the Venturi"

PROVIDENCE RHODE ISLAND

Type M Register—Indicator—Recorder

AMERICAN AND NIAGARA WATER METERS

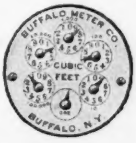
5/8 INCH NEW AMERICAN WATER METER



5/8 INCH NEW NIAGARA WATER METER

Niagara and American Meters are of the disc type. The Niagara Meter has a galvanized cast-iron outside casing; the American Meter has a bronze main casing with either a bronze base or a galvanized cast-iron base. The works in the three different casings are the same and interchangeable. Upon opening the meter at the bolted flange, each intermediate gear may be immediately removed from its bearing, the measuring chamber lifted from its seat, the strainer slipped out, or the register tried by turning the stuffing box gear. All submerged working bearings are protected against sand and sediment. The hard rubber measuring disc is reinforced with a metal plate. Purchaser has option of round reading or straight reading register indicating cubic feet, U. S. gals., imp. gals. or litres.

Round Reading Register



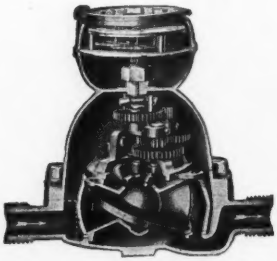
Straight Reading Register

BUFFALO METER CO.

ESTABLISHED 1892

2896 Main Street **BUFFALO, N. Y.**

UNION WATER METERS



King Model "B" Disc Meter

WATER METERS

cannot be any better than their gear trains, and the life of the gear train is determined by its ability to withstand corrosive conditions.

Hard rubber bushed spindles, intermediate spur gears of hard rubber and phosphor bronze have been a feature of Union Water Meters for forty years. In recent years this has been further perfected by the adoption of Monel Metal for spindles and screws.

The buoyancy of rubber spur gears renders the meter more sensitive and minimizes wear.

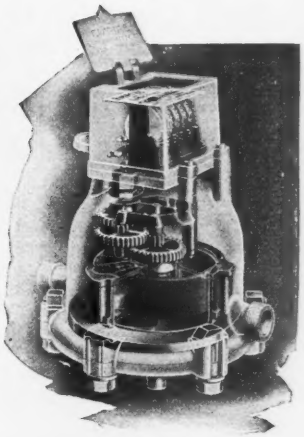
Makers of Approved Water Works Specialties since 1868

Union Water Meter Co.

WORCESTER, MASS.

"THEY SAY"

is not always a remark to inspire confidence, but if "they" make plain statements of plain facts, and all accounts agree, then what "they say" becomes valuable testimony.



Empire Water Meters

are the most sensitive, accurate, durable and long-lived water measuring devices made. This is not offered as our mere unsupported opinion, but is confirmed for your satisfaction by what "they say," quoted below:

From President of Water Co. in Maine:

"Since installation we have cut the consumption 40%, and unhesitatingly recommend EMPIRE meters to any Water Corporation."

From a New Hampshire Superintendent:

"We have about 850 EMPIRES. They give us very little trouble and are very satisfactory."

From Registrar of a Massachusetts Town:

"We have some EMPIRES that have been working steadily for over 20 years, and have given entire satisfaction."

From Town using nearly 2500 EMPIRES:

"Many of these meters have been in use for more than 20 years without one cent of expense to ourselves or the users."

Further details, illustrations and prices on request

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Established 1870 **299 Broadway, New York**

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ATTENTION
WATER WORKS
OF NEW ENGLAND

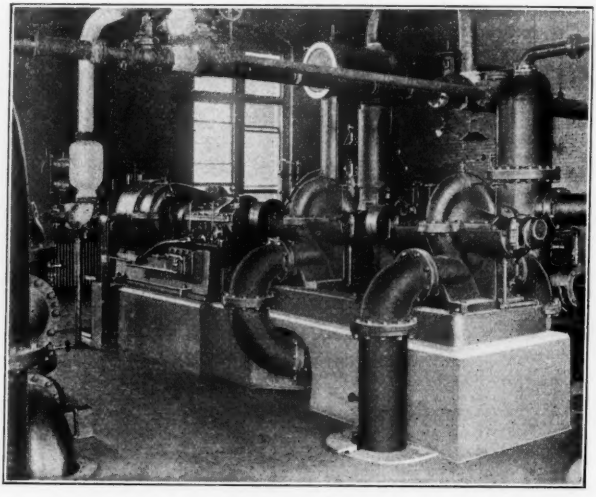
A few reasons why we solicit your inquiries on Water-Works Pumping Equipment:

First. — We make a specialty of furnishing Complete Water-Works Pumping Units of all types.

Second. — Total responsibility of installation is assumed by us.

Third. — We relieve the purchaser of every detail and turn the complete unit over to him under actual operation and with guarantee.

Fourth. — Every unit installed to date has beaten its guarantee and has been completely accepted.



Turbine-driven Pump at the Arlington Station of the Metropolitan Water Works, Boston, Mass.

F. A. Mazzur & Co.

141 MILK STREET, BOSTON

Complete Water-Works Pumping Plants

BOILERS STOKERS STACKS SUPERHEATERS
ECONOMIZERS FEED HEATERS CENTRIFUGAL PUMPS
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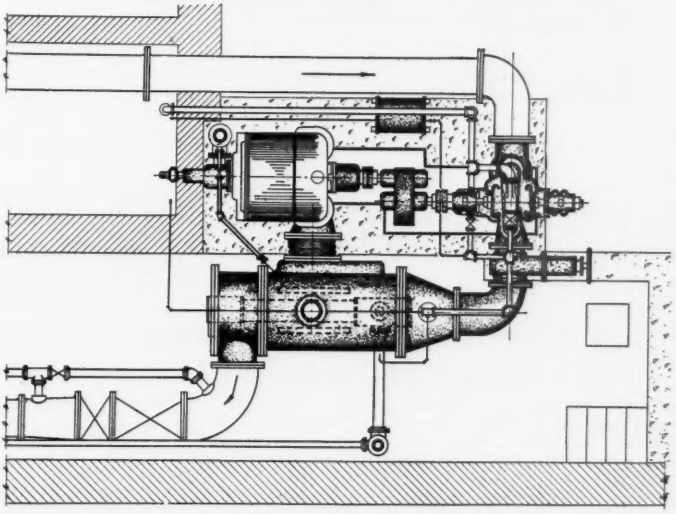

Above illustration shows the general arrangement of a 5 000 000 G.P.D. centrifugal pump for 237 feet dynamic head and driven through reduction gears by a multi-stage Steam Turbine, exhausting into a discharge type water-works Surface Condenser with horizontal air and condensate pump underneath same. Installed by us in the City Water Works, Woburn, Mass., to plans and specifications prepared by H. M. Haven & W. W. Crosby, Engineers, Boston, Mass.

Duties of from 100 000 000 to 150 000 000 foot-pounds per 1000 pounds of steam used are obtained with such installations; the exact duty depending upon size, head, steam pressure, superheat and vacuum.

Installed costs are from **one fourth** to **one third** that of a reciprocating pumping engine, and overall economy, little, if any, less.

Where current is available and electric pumping desirable, we can furnish motor-driven Centrifugal Pumps, single or multi-stage, depending upon head.

WE INSTALL COMPLETE WATER-WORKS PUMPING EQUIPMENT FROM COAL PILE TO DISCHARGE MAIN.

ONE CONTRACT, ONE GUARANTEE, ONE RESPONSIBILITY.

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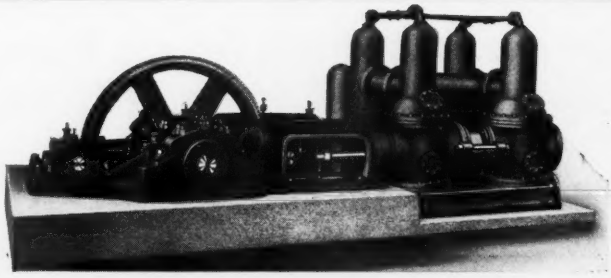

PLANT EFFICIENCY—77% ON 1-YEAR RUN
WIRE TO WATER

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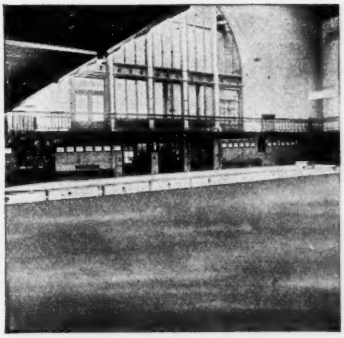
Pumping Plant Contractors

CENTRIFUGAL, POWER, STEAM PUMPS

STEAM TURBINES
WATER WHEELS

ELECTRIC MOTORS
OIL ENGINES

THE SWIMMING POOL OF UNITED STATES NAVAL ACADEMY



The United States Naval Academy Swimming Pool at Annapolis, one of the finest pools in the Country.

IS equipped with W & T Apparatus and Liquid Chlorine. It was only after a careful study in the methods of swimming pool purification that this apparatus was installed.

W & T Apparatus and Liquid Chlorine sterilize **Swimming Pool** water to the standard for **drinking** water set by the Government. And it purifies all the water in the pool, not alone the water at the point of application of the Chlorine; so that if properly operated, water taken from any part of the pool will conform to the drinking water standards of the United States Public Health Service.

Swimming pool sterilization is an important part of public health engineering and it is equally essential to use the proper method of sterilization, the W & T Liquid Chlorine process. There is no delicate mechanism to get out of order, no intricacy of operation, and Liquid Chlorine does not necessarily depend upon preliminary filtration of the Swimming Fool Water for its efficiency.

W & T Apparatus not only sterilizes over 4 000 000 000 gallons of drinking water every day, but it is also used in hundreds of swimming pools.

May we send you a copy of our booklet, "Pure Water for Swimming Pools"? It will be sent upon request.

Wallace & Tiernan Co., Inc.

Manufacturers of W & T Chlorine Control Apparatus for the Purification of Water and Sewage W & T Equipment for Paper and Textile Bleaching. Also the Booth Dry Feeder for the application of Pulverized Chemicals.

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Aside from the size and variety of our container equipment, included in which are cylinders, ton drums and tank cars, we take pride in the manner and condition in which it is maintained, and its usual availability for efficient service.

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4 inch to 24 inch

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We Carry in BOSTON STOCK for Immediate Shipment
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FLANGED PIPE in full and short lengths
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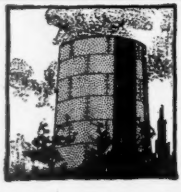

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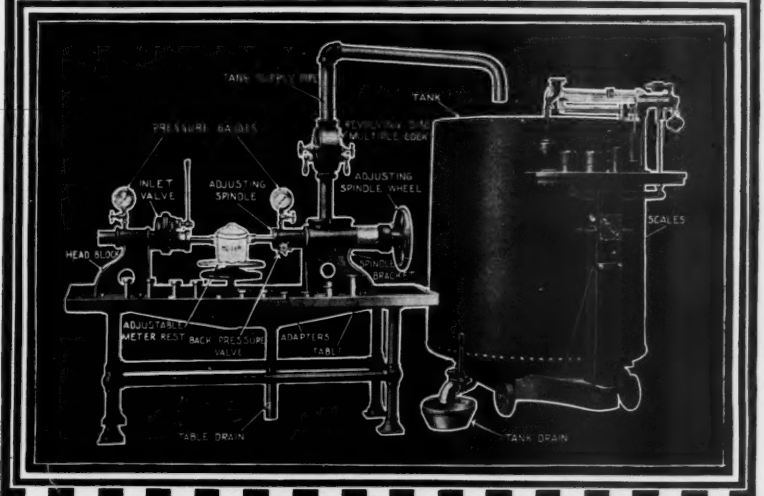
Manufacturers of the well-known CLARK METER BOX, maintaining uniformity for both large and small meters. Standardization in meter installations saves you money. Everything for the Water Works.
Write for new catalogue No. 20.



The People Demand Increased Efficiency

You can make sure your Department gets full revenue for every gallon of water used—by seeing that all meters are regularly tested for accuracy—with the

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The Mueller will prove exactly what each meter does—will enable you to adjust each meter to absolute accuracy—will save more than its cost year after year. Used and endorsed by leading municipalities. The name Mueller guarantees both Quality and Service.

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We make **Pressure Regulating Valves** for all purposes, steam or water.

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We can interest you if you use a condenser.

Water Engines for Pumping Organs

THE ROSS VALVE MFG. CO.

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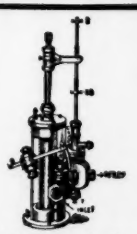
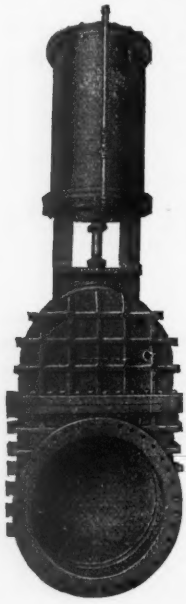


Standard for pumping church or parlor organs. Ask your organ builder for it or write us.



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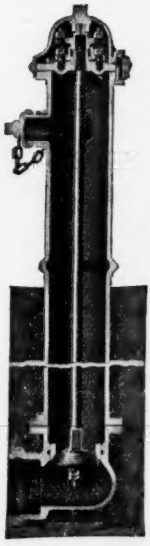

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Sales Offices: Philadelphia, Kansas City, Salt Lake City, Seattle, Portland, Ore.; El Paso, Winnipeg.
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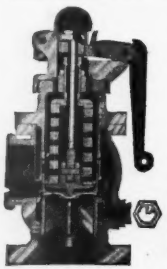

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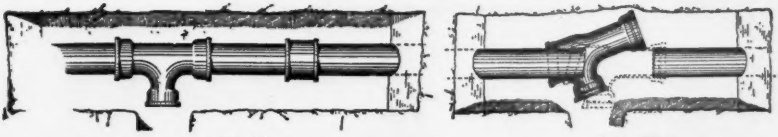
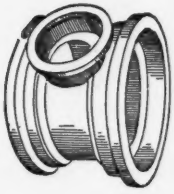


Old Way *Our Way*



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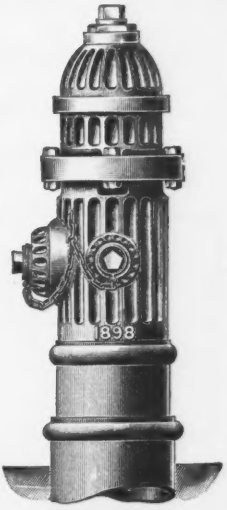
Cost of fittings reduced from 25% to 50%. Full strength. Deep bells. Convenient to handle. Sold by the piece.



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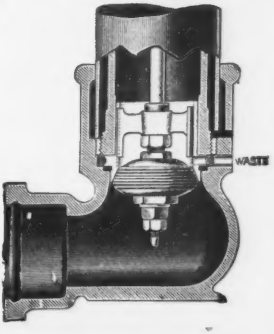
A half century of use has established their reputation as being the most economical, durable and simple hydrant.

Number in use exceeds total of all other makes combined.



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EXTRA WEIGHT, FINISH
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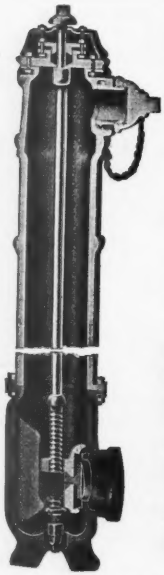

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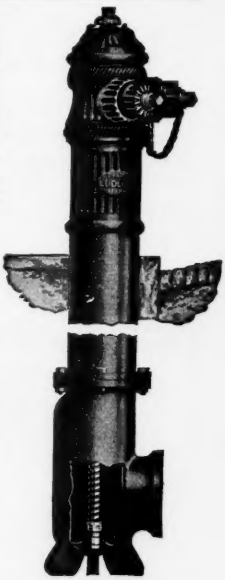
This hydrant is anti-freezing, because when the drainage is good no water is left in it to freeze.

The drip is directly in the bottom of the hydrant and drains perfectly. It is protected by its valve, which never leaves its socket and cannot be clogged.



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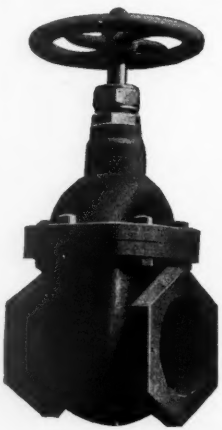

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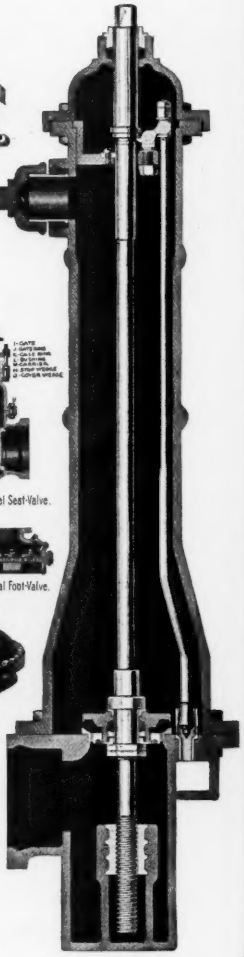
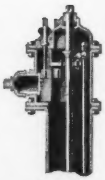


Section of Taper Seat-Valve.



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Section of Vertical Check-Valve.

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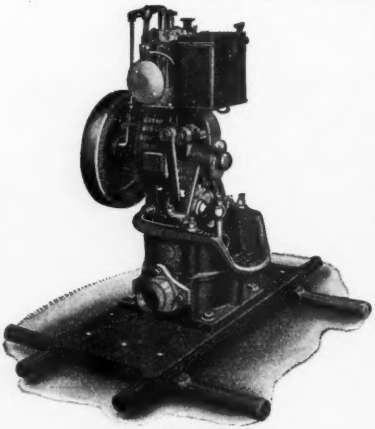

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FOR

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2. **NO CAULKING.** Leadite joints require no caulking, because the Leadite adheres to the pipe, making a water-tight bond.
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4. **LABOR SAVING.** Saves caulking charges and digging of large bell-holes, and reduces the cost of trench pumping to the minimum.
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10. **DELIVERY.** We can make prompt shipments.
11. **DAMAGE SUITS.** Claims for damages caused by joints blowing out are prevented because Leadite joints will not blow out under any pressure.
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***Also* Pure Block-Tin Lined Iron Pipe and Fittings**

Lead Pipe, Tin Lined Lead Pipe, Pure Block-Tin Pipe, Solder Pig Lead, White Lead and Red Lead

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AND CUT YOUR EXPENSES

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Vol. 2, No. 2 — December, 1887
No. 3 — March, 1888
Vol. 3, No. 1 — September, 1888

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715 Tremont Temple Boston, Mass.

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.....*membership.*

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I will conform to the requirements of membership if elected.

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